

SERVICE 13000 L





MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT 20525 Nordhoff Street Chatsworth, California 91311 Phone: 1-800-423-5108

1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

- 1. Complete address.
- 2. Complete part numbers.
- 3. Complete description of parts.
- 4. Model number for which part is required (indicate MARANTZ).
- 5. Account number (for account customers only).

Direct consumers will be provided with the current retail prive quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

CANADA	AUSTRALIA	JAPAN
Superscope Canada, Ltd.	Superscope (Australasia) Pty., Ltd.	Marantz Japan, Inc.
3710 Nashua Drive	32 Cross Street (P.O. Box 604)	3622 Kamitsuruma
Mississauga	Brookvale 2100 N.S.W.	Sagamihara Shi
Ontario, Canada L4V1M5	Australia	Kanagawa, Japan

EUROPE

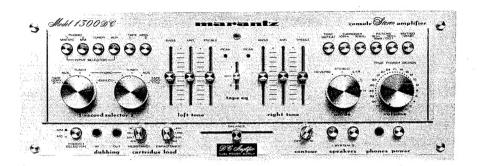
Superscope Europe, S.A. Avenue Leopold III, 2 7120 Peronnes-Lez-Binche Belgium	Marantz France Rue Louis Armand 9 92600 Asnieres Hauts-de-Seine	 Marantz Audio U.K. Ltd. London Road, 203 Staines Middlesex	Superscope GmbH Max-Planck-Strasse 22 D-6072 Dreieich 1 West Germany
· g · - · · ·		Middlesex	west definally
	France	England	

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.



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1. POWER AMPLIFIER ADJUSTMENT

1.1 Adjustment of idling current

Connect VTVM between left channel R760 and R761. Adjust R733 until the meter reads 20mV. Similarly, connect VTVM between right channel R760 and R761 and adjust R733 until the meter reads 10mV.

1.2 DC-OFFSET adjustment

Connect VTVM to JW02 and JW08 (or ground) and adjust left channel R720 until the meter indication reaches 0mV (±5mV). Similarly, connect VTVM to JW04 and JW08 (or ground) and adjust right channel R720 until the meter indication reaches 0mV (±5mV).

2. POWER SUPPLY ADJUSTMENT

Connect a voltmeter between J810 and J820. Adjust R810 until meter indicates 31 VDC. Similarly connect a voltmeter between J812. Check to make sure that the meter indicates - 31 V.

3. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 1180DC Stereo Console Amplifier. The wattmeter, AC voltmeter, and variable autotransformer may be assembled as a test fixture as shown schematically in Figure 1. The load resistors and AC ammeter may be assembled into a second test fixture as shown in Figure 2.

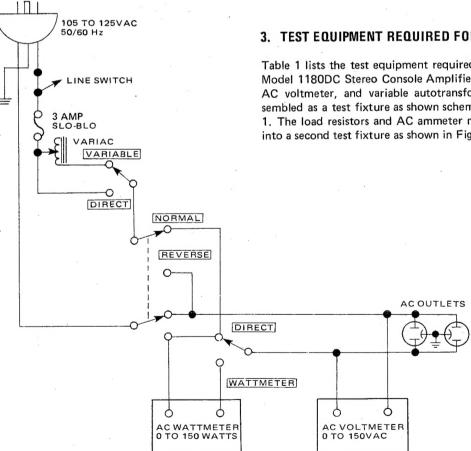


Figure 1. AC Power Control Box Simpligied Schematic

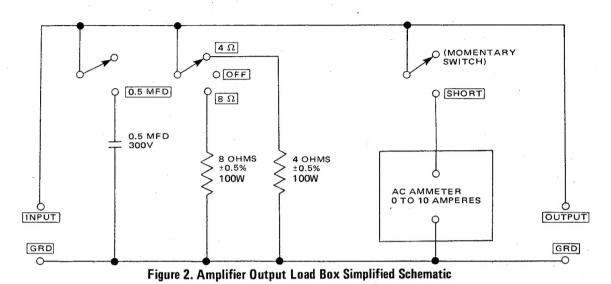


Table 1. Test Equipment Required for Servicing

Item	Manufacurer and Model No. (or equivalent)	Use
Distortion Analyzer and Audio Oscillator	Spund Technology, Model 1700B (NOTE: Less then 0.002 percent residual distortion is required.)	Measures distortion, voltage of ampli- fier output and sinewave source
Oscilloscope	Tektronix, Model 503 Data, Model 555	Waveform analysis and troubleshooting.
VTVM	RCA Senior Volt-Ohmyst, Model WV-98C	Voltage and resistance measurements.
AC Wattmeter	Simpson, Model 390	Monitors primary power consumption of amplifier.
AC Ammeter (0 to 10 amps)	Commercial Grade	Monitors amplifier output under short circuit condition.
Line Voltmeter (0 to 150V AC)	Commercial Grade	Monitors potential of primary power to amplifier.
Variable Autotransformer (0 to 140V AC, 10 amps)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.
Shorting Plug	Use phono plug with 600 ohms across center pin and shell.	Shorts amplifier input to eliminate noise pickup.
Power Supply Bleeder Resistor (10 ohms at 1 W)	Commercial Grade	Discharges power supply filter capaci- tors prior to disassembly or resist- ance measurements.
Output Load Resistor (8 Ω ±0.5%, 250W)	Commercial Grade	Provides 8-ohm load for amplifier output termination.
Output Load Resistor (4 Ω ±0.5%, 250W)	Commercial Grade	Provides 4-ohm load for amplifier output termination.
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks.
AC Power Control Box	Optional Item. Fabricate in accordance with Figure 1.	Monitors and controls primary power for amplifier.
Amplifier Output Load Box	Optional Itam Fabricate in accordance with Figure 2.	Provides various amplifier loads and can monitor shorted output.

4. VOLTAGE CONVERSION

EUROPEAN MODEL ONLY

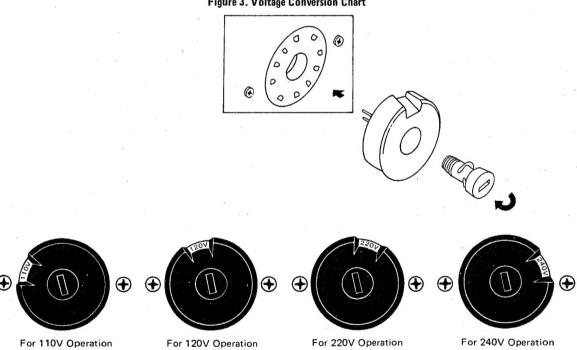
This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.

To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

CAUTION

DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BERORE CONVERTING VOLTAGE.

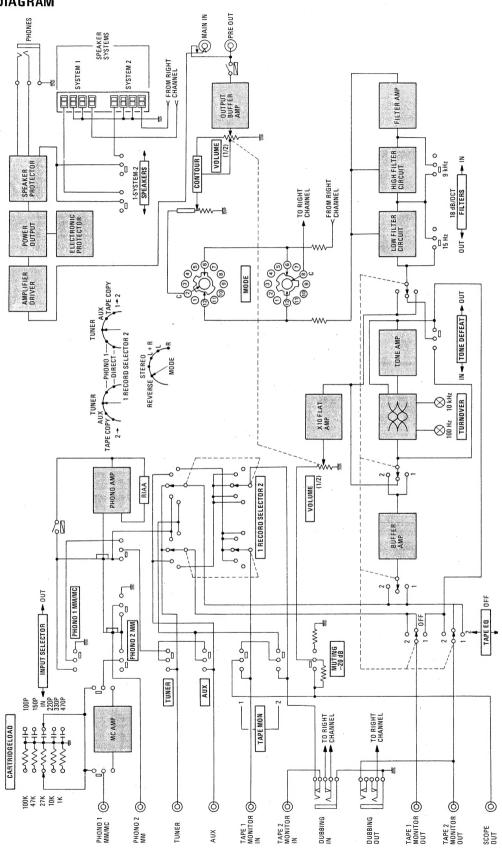
Figure 3. Voltage Conversion Chart



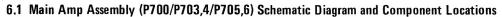
Removal Procedure of P.W. Boards

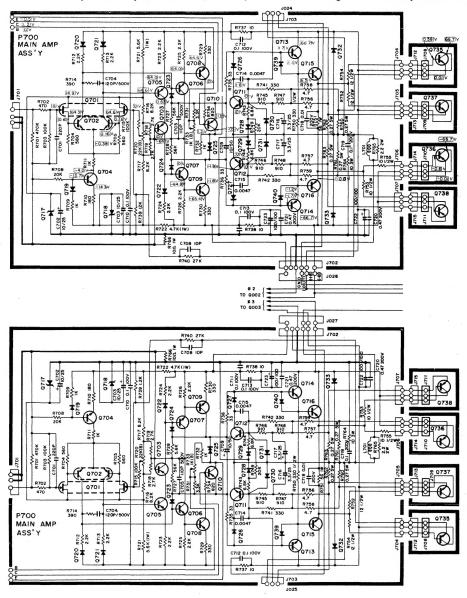
- Remove the screw 1 (002C) and screw 2 (003C). Remove the Upper cover
- 2. Remove the screw 3 (011C). Remove the bottom cover.
- Remove the screw 4 (101F). Remove the front cover (100F).
- 4. Remove the controls 1 (016B),
- 2 (017B), 3 (019B), 4 (020B), 5 (022B) and 6 (023B), and remove the screw 5 (021B), nut 1 (020F) and bolt 1 (025B). Remove the escutcheon.
- Remove the screws 6 (003F), 7 (005F) and 8 (034F). Then the board will be drawn out toward you.

5. BLOCK DIAGRAM

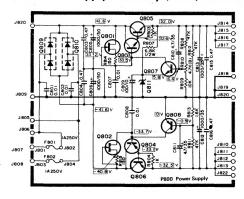


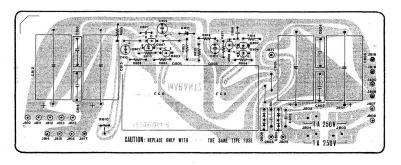
6. DIAGRAM AND COMPONENT LOCATIONS

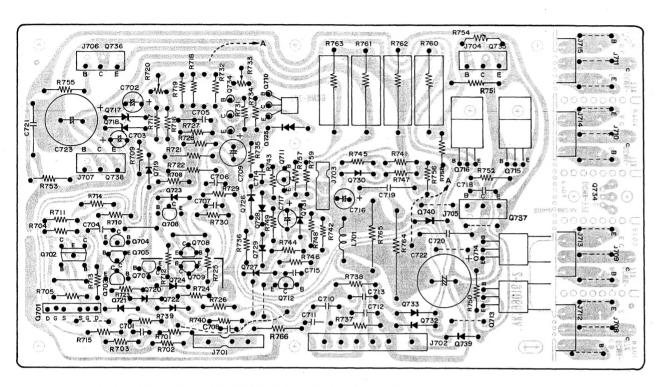




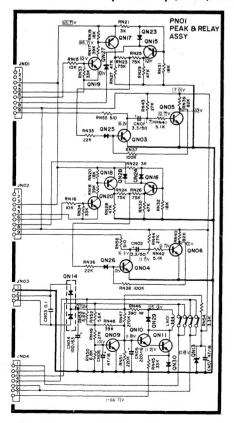
6.2 Power Supply Assembly (P800) Schematic Diagram and Component Locations

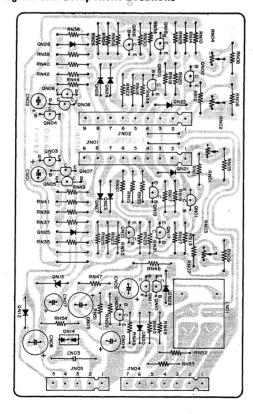




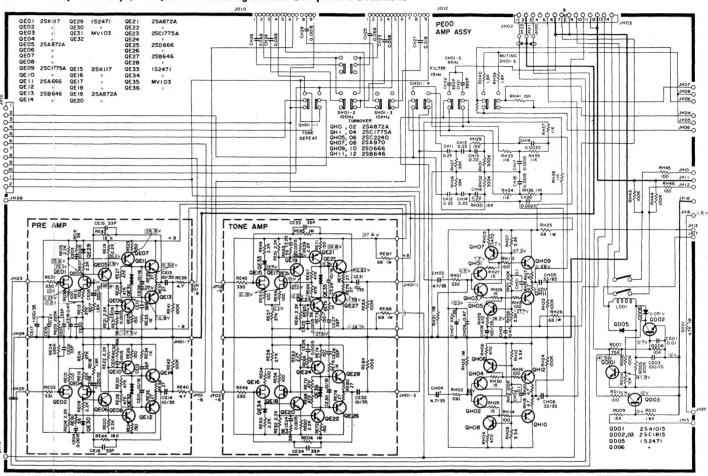


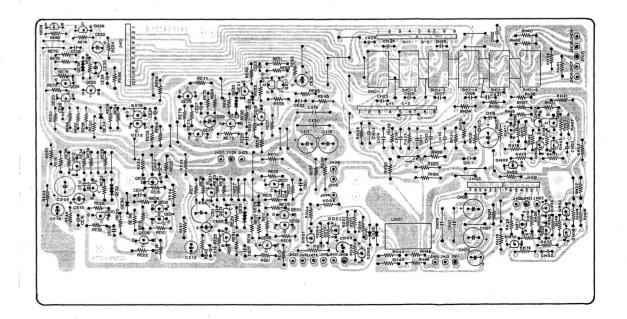
6.3 Peak and Relay Assembly (PN01) Schematic Diagram and Component Locations





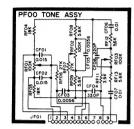
6.4 Pre Amp Assembly (PE00) Schematic Diagram and Component Locations

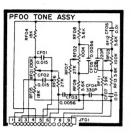


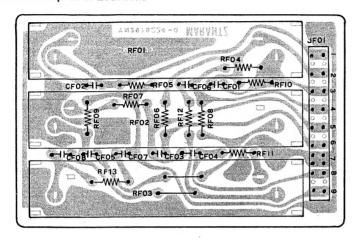


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6.5 Tone VR Assembly (PF00) Schematic Diagram and Component Locations





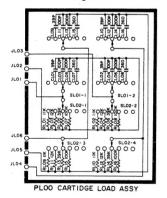


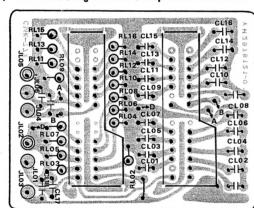
6.6 Tone VR Selector Assembly (PFO1) Schematic Diagram and Component Locations



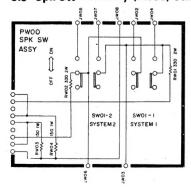


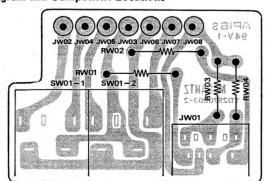
6.7 Cartdge Load Assembly (PLOO) Schematic Diagram and Component Locations



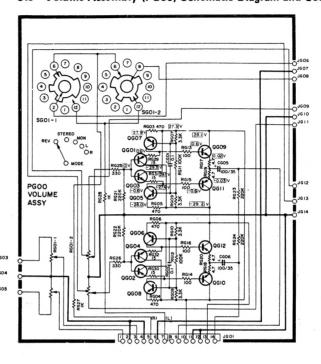


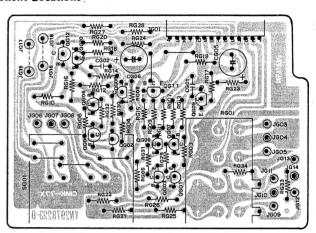
6.8 Spk SW Assembly (PW00) Schematic Diagram and Component Locations



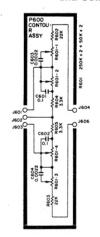


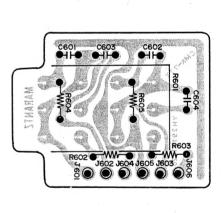
6.9 Volume Assembly (PG00) Schematic Diagram and Component Locations



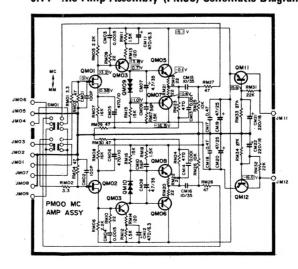


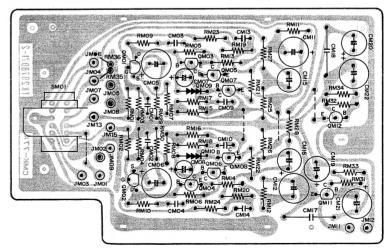
6.10 Contour Assembly (P600) Schematic Diagram and Component Locations



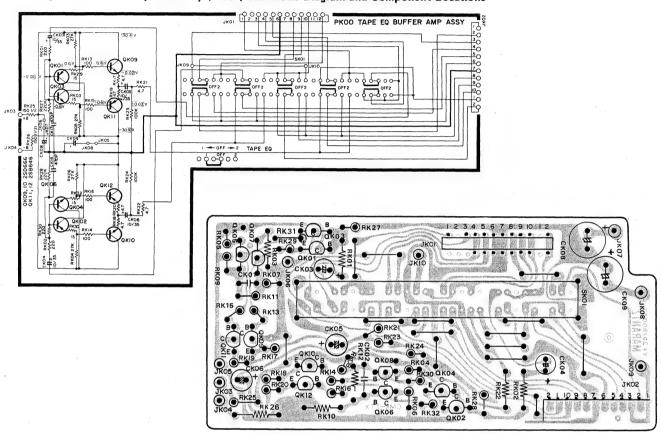


6.11 Mc Amp Assembly (PM00) Schematic Diagram and Component Locations

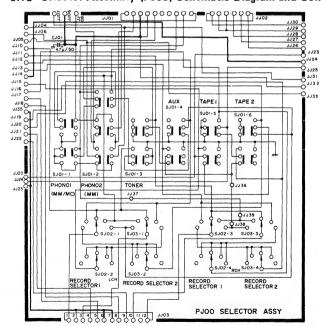


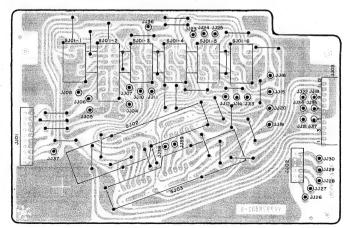


6.12 Tape EQ Buffer Amp Assembly (PKOO) Schematic Diagram and Component Locations

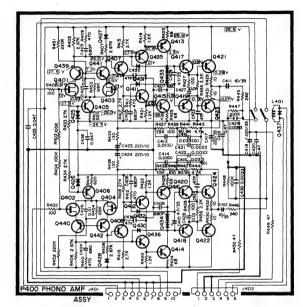


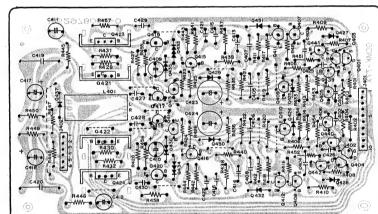
6.13 Selector Assembly (PJ00) Schematic Diagram and Component Locations



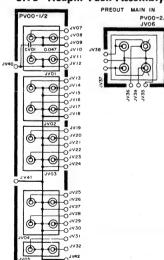


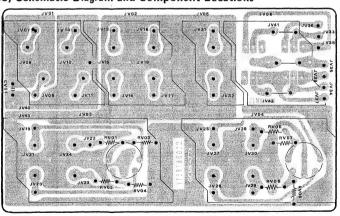
6.14 Phono Amp Assembly (P400) Schematic Diagram and Component Locations





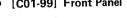
6.15 Rcapin Tack Assembly (PV00) Schematic Diagram and Component Locations

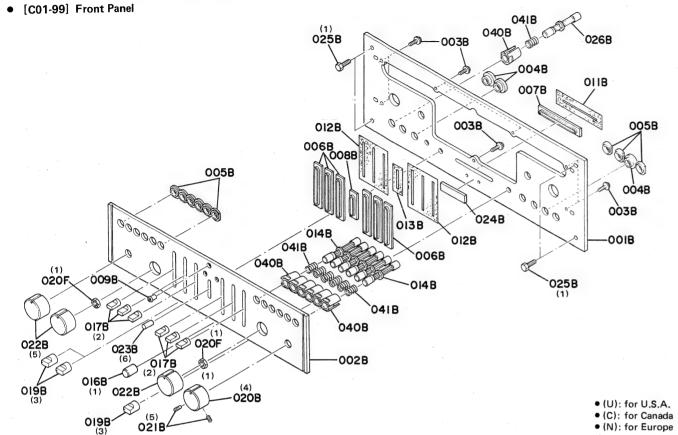




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7. EXPLODED MECHANICAL DIAGRAM

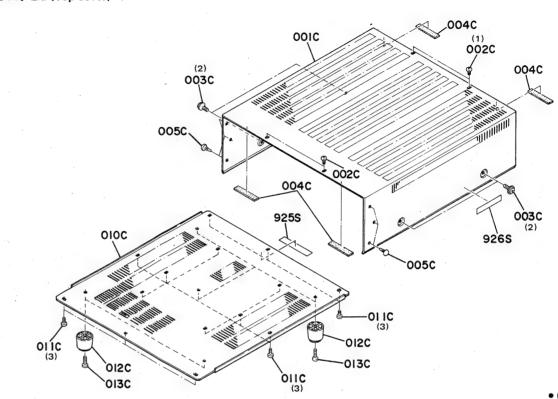




(3) 0218									
REF.	QTY		Q'TY PART NO		DESCRIPTION				
DESIG.	U	С	N	PART NO.	DESCRIPTION				
А	1	1	1	2990063400	Front Panel Assembly				
001B	1	1	1	2990063012	Escutcheon, Main				
002B	1	1	1	2990063030	Escutcheon, Sub				
003B	7	7	7	51480306A9	F. Washer Screw				
004B	3	3	3	2978259020	Bushing, Jack				
005B	9	9	9	2978259012	Bushing, Push Switch				
006B	6	6	6	2970259010	Bushing, Slide VR				
007B	1	1	1	2926259040	Bushing, Balance VR				
008B	1	1	1	2978259042	Bushing, Tape EQ				
009B	1	1	1	2979259022	Bushing, LED				
011B	1	1	1	2926303020	Mask				
012B	2	2	2	2926303010	Mask				
013B	1	1	1	2978303010	Mask				
014B	6	6	6	2978154043	Knob				
024B	1	1	1	2979251020	Badge				
026B	1	1	1	2978154070	Knob				
040B	7	7	7	2979259013	Bushing				
041B	7	7	7	2979115012	Spring				
l									
					- -				
	1								

REF. Q'TY PART NO DES	DESCRIPTION			
DESIG. U C N PART NO. DES	DESCRIPTION			
DESIG. U C N PART NO. DESIGNATION 016B 1 1 1 2970154010 Knob 017B 6 6 6 2970154020 Knob 019B 3 3 3 2978154030 Knob 020B 1 1 1 2965154010 Knob	ew, HP 3 x 6			

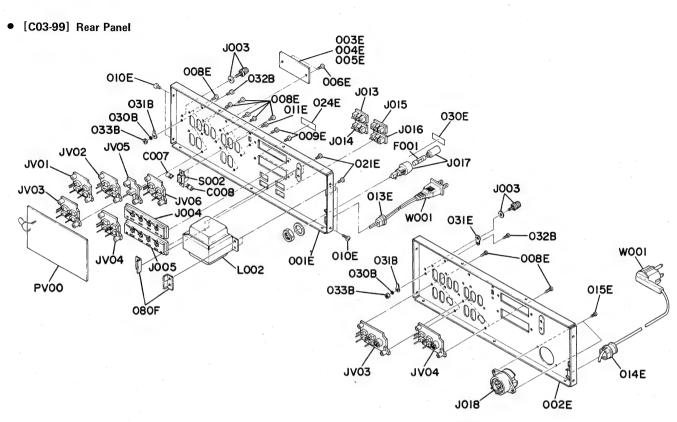
• [C02-99] Lid (Top cover)



•	(U):	for	U.S.A.
•	(C):	for	Canada
•	(N):	for	Europe

	REF.	_	QTY		PART NO.	DESCRIPTIO	N
ĺ	DESIG.	U	С	N	PART NO.	DESCRIPTIO	14
	001C 002C 003C 004C 005C	1 4 4 4 6	1 4 4 4 6	1 4 4 4 6		Lid, Top Cover B.H. Tapped Screw F. Washer Screw Spacer Bushing	B3 x 6 F4 x 6
	010C 011C 012C	5	5	5	51280408U0 2759057010	Lid, Bottom Cover B.H. Tapped Screw Leg	B4 x 8
	013C	5	5	5	51570410S0	P. Tapped Screw	P4 x 10

REF.	QTY			PART NO.	DESCRIPTION		
DESIG.	U	С	N	FART NO.	DESCRIPTION		
925S 925S 926S 926S	1	1	1	2578861010 2911861110 2911861140 2932861010	Label Label Label Label		
				:			



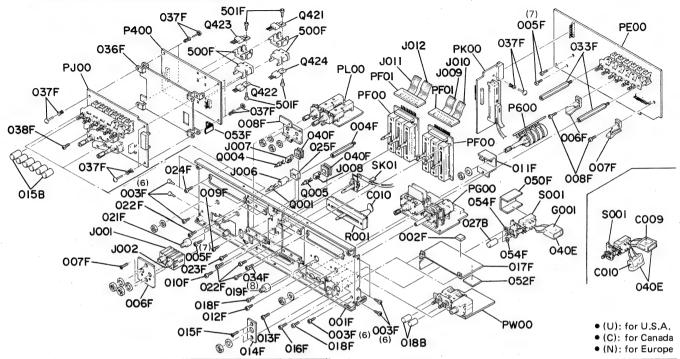
(U): for U.S.A.(C): for Canada(N): for Europe

·					·		
REF.	C	YT'	Υ	PART NO.	DESCRIPTION	M	
DESIG.	U	С	N	PARTINO.	DESCRIPTIO	714	
	١.	١.					
001E	1	1		2990160210	Bracket, Rear Panel		
002E			1	2990160220	Bracket, Rear Panel		
003E	1			2990265010	Indicator		
004E		1		2990265020	Indicator		
005E		_	1	2990265030	Indicator	_	_
006E	2	2	2	51760306B0	OS Tapped Screw	3 x	_
008E	12	1	14	0.00000	B.H. Tapped Screw		
009E	4	4	4	51280308U0	B.H. Tapped Screw		
010E	4	4	4	51280308U0	B.H. Tapped Screw		
011E	2	2	2	5110030689	B.H.M. Screw	B3 :	x 6
013E	1	1		1455259070	Bushing		
014E			1	2286259110	Bushing		_
015E			2	5110030889	B.H.M. Screw	B3 :	
021E	4	4	4	51100408S9	B.H.M. Screw	B4 :	x 8
024E		1		2214861010	Label		
030E		1		2911861250	Label		
031E			1	2211123110	Contactor		
0000				E 40 400 000 10			
030B	1	1	1	54040302N0	Spring Washer		
031B	1	1	1	62030049W0	Lug		
032B	1	1	1	51100308B9	B.H.M. Screw	B3 :	x 8
033B	1	1	1	53110303E9	Hexagon Nut		
080F	2	2	2	2990104070	D		
0801	2	2	2	2990104070	Retainer		
C007	1	1	1	EQ10601610	Elect Cap. 0.01	. =	16V
C007	1	1	1	EQ10601610	Elect Cap. 0.01		16V
F001	1	1	'	FS10800040	Fuse. 4AT	uı	250V
F001	'	'	1	FS10400800	Fuse, 8A		2500
1 001			'	. 51040000	ruse, OA		

REF.	Q'TY		Y		
DESIG.	υ	С	N	PART NO.	DESCRIPTION
1003	1	1	1	YL03010240	Terminal, Ground
J004	1	1	1	YT03040160	Terminal, Speaker
J005	1	1	1	YT03040160	Terminal, Speaker
J013	1	1		YJ04000560	Jack, A.C. Outlet
J014	1	1		YJ04000560	Jack, A.C. Outlet
J015	1	1		YJ04000560	Jack, A.C. Outlet
J016	1	1		YJ04000560	Jack, A.C. Outlet
J017	1	1		YJ08000230	Jack, Fuse Holder
J017			1	YJ08000220	Jack, Fuse Holder
J018			1	BY03110010	Plug, Voltage Selector
1,000				T040040040	
L002	1	1		TS16616010	Power Transformer
L002			1	TS16616020	Power Transformer
S002	1	1	1	SS02020380	Slide Switch
W001 W001		1	1	YC02000160	A.C. Power Cord
WOOT			'	YC01900030	A.C. Power Cord
PV00	1	1	1	YF29780020	P.W. Board, RCA Pin Jack
	1	1		ZZ29901020	P.W. Board Assembly
			1	ZZ29908020	P.W. Board Assembly
JV01	1	1	1	YT02040270	Terminal
JV02	1	1	1	YT02040150	Terminal
JV03	1	1	ا ،	YT02040150	Terminal
JV03			1	BY01050060	Jack
JV04	1	1		YT02040150	Terminal
JV04			1	BY01050060	Jack
JV05	1	1	1	YT02020150	Terminal
JV06	1	1	1	YT02040210 YT02040150	Terminal
1000			_'_	1 102040150	Terminal

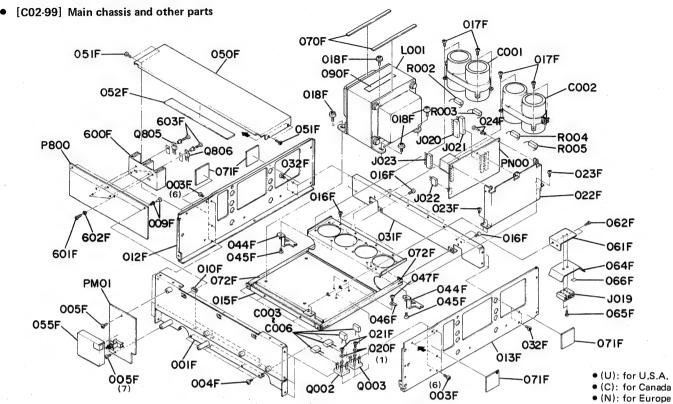
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• [P01-99] Front Chassis and General Parts



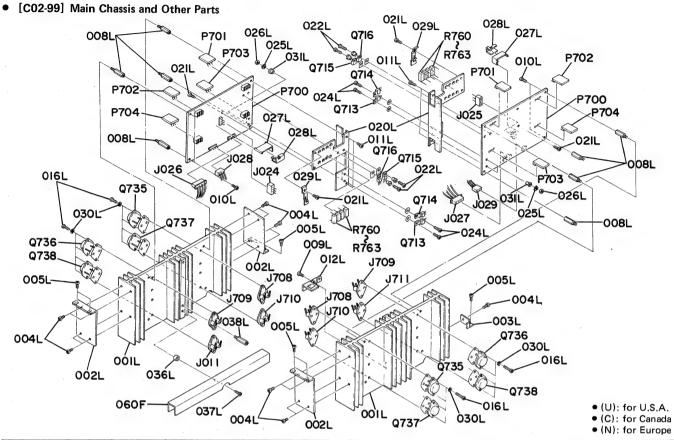
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REF.	Q'TY			PART NO.	DESCRIPTIO	N	
DESIG.	υ	С	N				
001F	1	1	1	2978160020	Bracket, Front		
001F	1	1	1	3358118080	Spacer		
002F	8	8	8	51280308B0	B.H. Tapped Screw	B3v 8	
003F	1	1	1	2978101050	Support	DOX 0	
005F	1	1	1	51100306A9	B.H.M. Screw	B3 x 6	
006F	1	1	1	2978120050	Insulator		
007F	2	2	2	51040306S9	F.H.M. Screw	F3 x 6	
008F	1	1	1	2978160080	Bracket		
009F	1	1	1	51280308B0	B.H. Tapped Screw	B3 x 8	
010F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
					•		
011F	1	1	1	2978160070	Bracket		
012F	1	1	1	51280308B0	B.H. Tapped Screw	B3 x 8	
013F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
014F	1	1	1	2970120020	Insulator	F0 C	
015F	2	2	2	51040306S9	F.H.M. Screw	F3 x 6 B3 x 6	
016F	2	1	2	51100306A9 2978109030	B.H.M. Screw Shield	B3 X D	
017F 018F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
019F	1	1	1	2978101020	Support	D3 X 0	
013F	1	1	1	2970101010	Support		
0211	Ι'	'	'	2370101010	Jupport		
022F	12	12	12	51100306A9	B.H.M. Screw	B3 x 6	
023F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
024F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
025F	1	1	1	2978259060	Bushing		
033F	2	2	2	2978101050	Support		
034F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
036F	1	1	1	2978109050	Shield		
037F	8	8	8	2276005050	Clamper		
038F	1	1	1	51280306B0	B.H. Tapped Screw	B3 x 6	
040F	2	2	2	2978259060	Bushing		
	l.	١.	١.	0054400010			
050F	1	1	1	3951120010	Insulator		
052F	1	1	1	2978120070 2978120080	Insulator Insulator		
053F 054F	1 2	2	2	2978120080	Spacer		
U04F	12	12	4	2232110300	Spacer		

REF. Q'TY		PART NO.	DESCRIPTION		
DESIG.	υ	С	N	PARTNO.	DESCRIPTION
		,			
500F	4	4	4	2963267020	Heatsink
501F	4	4	4	51280306B0	B.H. Tapped Screw B3 x 6
015B	6	6	6	2970154030	Knob
018B	2	2	2	2970154030	Knob
027B	1	1	1	2221154120	Knob, Power Switch
040E	1	1		2219120010	Insulator
040E			2	3926120010	Insulator
005F	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
006F	1	1	1	2978051010	Guide
007F	1	1	1	2978051110	Guide
008F	1	1	1	51280310B0	B.H. Tapped Screw B3 x 10
C009			1	DF17223800	Film Cap. 0.022µF ±20% 1000V
C010			1	DF17223800	Film Cap. 0.022µF ±20% 1000V
C010	1	1	1	DK18473310	Ceramic Cap. 0.047µF +80 —20%
G001	1			BF10400030	Cap. Comp. $0.1\mu\text{F} + 120\Omega$
G001		1		BF10400050	Cap. Comp. $0.1\mu\text{F} + 120\Omega$
J001	1	1	1	YJ01001010	Jack, Dubbing In
J002	1	1	1	YJ01001010	Jack, Dubbing Out
J006	1	1	1	YJ05000250	Jack, L.E.D.
J007	1	1	1	YJ05000270	Jack, L.E.D.
J008	1	1	1	YJ05000250	Jack, L.E.D.
J009	1	1	1	YU08150210	Jumper Lead (8P)
J010	1	1	1	YU08150210	Jumper Lead (8P)
J011	1	1	1	YU08250210	Jumper Lead (8P)
J012	1	1	1	YU08250210	Jumper Lead (8P)
0.001	1	1	1	HI10004030	L.E.D.
0001	1	1	1	H110004030	L.E.D.
0004	1	1	1	H110004030	L.E.D.
R001	ľ	1	1	RS01040110	Variable Resistor,
I NOO!	'	١'	Ι'	1.301040110	100KΩ (BH) x 2
S001	1	1		SP04010230	Push Switch, Power
S001	ľ	Ι.	1	SP04010250	Push Switch, Power
""					



REF.	Q'TY		Y	PART NO.	DESCRIPTIO	DESCRIPTION		
DESIG.	υ	С	N	PARTINO.	DESCRIPTIO	IN .		
001F	1	1	1	2990160110	Bracket, Front Chass	sis		
003F	6	6	6	51280408U0	B.H. Tapped Screw	B4 x 8		
004F	4	4	4	51280408B0	B.H. Tapped Screw	B4 x 8		
005F	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6		
009F	3	3	3	2965005010	Clamper			
010F	3	3	3	2218271020	Holder			
012F	1	1	1	2990160030	Bracket, (L)			
013F	1	1	1	2990160130	Bracket, (R)			
015F	1	1	1	2979105010	Chassis, Main			
016F	6	6	6	51280408B0	B.H. Tapped Screw	B4 x 8		
017F	8	8	8	51280308B0	B.H. Tapped Screw	B3 x 8		
018F	4	4	4	51490612A9	L. Washer Screw	L6 x 12		
020F	2	2	2	54020301A0	Flat Washer, P			
021F	2	2	2	51280316B0	B.H. Tapped Screw	B3 x 16		
022F	1	1	1	2979160010	Bracket			
023F	4	4	4	51280306B0	B.H. Tapped Screw	B3 x 6		
024F	3	3	3	2965005010	Clamper			
031F	1	1	1	2990160020	Bracket			
032F	4	4	4	51280408U0	B.H. Tapped Screw	B4 x 8		
044F	2	2	2	2979160040	Bracket			
045F	2	2	2	51280308B0	B.H. Tapped Screw	B3 x 8		
046F	1	1	1	62030049W0	Lug			
047F	1	1	1	51280306B0	B.H. Tapped Screw	B3 x 6		
050F	1	1	1	2990053010	Cover			
051F	4	4	4	51280306U0	B.H. Tapped Screw	B3 x 6		
052F	1	1	1	2978120010	Insulator			
055F	1	1	1	2978053050	Cover			
061F	1		1	2990271010	Holder			
062F		1	2	51280308B0	B.H. Tapped Screw	B3 x 8		
064F			1	3953120030	Insulator			
065F			2	51280314B0	B.H. Tapped Screw	B3 x 14		
066F	<u></u>		1	2882861020	Label			

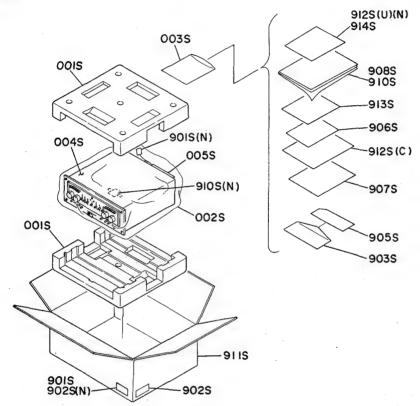
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REF. DESIG.			PART NO DESCRIPTION		DESCRIPTION		
DESIG.	U	С	N				
070F	2	2	2	2979056010	Buffer		
071F	4	4	4	2979056020	Buffer		
072F	2	2	2	2979259050	Bushing		
090F	1	1	1	2213861010	Label		
600F	1	1	1	2990267020	Heatsink		
601F	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6		
602F	2	2	2	54050300R0	T.L. Washer OR		
603F	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8		
C001	1	1	1	E110908040	Elect Cap. 10000μF		
C002	1	1	1	EI10908040	Elect Cap. 10000μF		
C003	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V		
C004	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V		
C005	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V		
C006	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V		
J019			1	YL09030010	Terminal, (3P)		
J020	1	1	1	YJ06001070	Jack, (9P)		
J021	1	1	1	YJ06001070	Jack, (9P)		
J022	1	1	1	YJ06001040	Jack, (3P)		
J023	1	1	1	YJ06001060	Jack, (7P)		
L001	1	1		TS63303040	Power Transformer		
L001			1	TS63303050	Power Transformer		
Q002	1	1	1	HD20004290	Diode S5VB-20		
Q003	1	1	1	HD20004290	Diode S5VB-20		
R002	1	1	1	GS10222030	Resistor 2.2KΩ ±10% 3W		
R003	1	1	1	GS10222030	Resistor 2.2K Ω ±10% 3W		
R004	1	1	1	GS10222030	Resistor 2.2K Ω ±10% 3W		
R005	1	1	1	GS10222030	Resistor 2.2K Ω ±10% 3W		
Q805	1	.1	1	HT403132P0	Transistor 2SD313 (D or E)		
Q806	1	1	1	HT205072P0	Transistor 2SB507 (D or E)		



REF.	Q'TY		Y	PART NO.	DESCRIPTION		
DESIG.	U	С	N	PART NO.	DESCRIPTIO	14	
001L	2	2	2	2463267010	Heatsink		
002L	3	3	3	2979160020	Bracket		
003L	1	1	1	2978104030	Retainer		
004L	13	13	13	51280308B0	B.H. Tapped Screw	B3 x 8	
005L	7	7	7	51280306B0	B.H. Tapped Screw	B3 x 6	
008L	8	8	8	2463101010	Support		
009 L	1	1	1	51100306A9	B.H.M. Screw	B3 x 6	
010L	6	6	6	51100306A9	B.H.M. Screw	B3 x 6	
011L	4	4	4	51100308A9	B.H.M. Screw	B3 x 8	
012L	1	1	1	2990104060	Retainer		
.]	٠.				·		
016L	16		16	51100316A9	B.H.M. Screw	B3 x 16	
020 L	2	2	2	2990267030	Heatsink		
021L	4	4	4	51280306B0	B.H. Tapped Screw	B3 x 6	
022L	4	4	4	51100308E9	B.H.M. Screw	B3 x 8	
024L	4	4	4	51100312E9	B.H.M. Screw	B3 x 12	
025L	4	4	4	54050300R0	T.L. Washer OR		
026L	4	4	4	53110303E9	Hexagon Nut		
027L	2	2	2	2990267080	Heatsink		
028L	2	2	2	2990115020	Spring		
029 L	2	2	2	2990115010	Spring		
0001		16	40	E 40 400 00 NO	C		
030L	16	4	١.٠	54040302N0 2219259030	Spring Washer		
031L	4	1 -	4		Bushing	D2 - 40	
037L	1	1	1	51100310A9 2891101030	B.H.M. Screw	B3 x 10	
038L	1 '	١.	1 '		Support		
036L	1	1	1	3683055010	Collar		
060F	1	1	1	2990109010	Shield		

REF.	C	l'T	Y		
DESIG.	υ	С	N	PART NO.	DESCRIPTION
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		١.			(0.0)
J024	1	1	1	YJ06001040	Jack, (3P)
J025	1	1	1	YJ06001040	Jack, (3P)
J026	1	1	1	YJ06002050	Jack, (4P)
J027	1	1	1	YJ06002060	Jack, (4P)
J028	1	1	1	YJ06001040	Jack, (3P)
J029	1	1	1	YJ06001040	Jack, (3P)
D700	1	2	2	YK29901610	P.W. Board, Main
P700	2	2	2	ZZ29901610	P.W. Board Assembly
1	2	2	2	2229901610	P.W. Board Assembly
R760	2	2	2	GW10272050	Resistor 0,27Ω ±10% 5W
R761	2	2	2	GW10272050	Resistor 0.27Ω ±10% 5W
R762	2	2	2	GW10272050	Resistor 0.27Ω ±10% 5W
R763	2	2	2	GW10272050	Resistor 0.27Ω ±10% 5W
11703	1	-	-	GW10272000	116313101 0.2711 21070 000
Q713	2	2	2	HT407571C0	Transistor 2SD757 (C)
0714	2	2	2	HT407571C0	Transistor 2SD757 (C)
Q715	2	2	2	HT322381C0	Transistor 2SC2238B (O or Y)
Q716	2	2	2	HT322381C0	Transistor 2SC2238B (O or Y)
Q735	2	2	2	HT406652A0	Transistor 2SD665 (R or O)
Q736	1	1	1	HT206452A0	Transistor 2SB645 (R or O)
Q737	2	2	2	HT406652A0	Transistor 2SD665 (R or O)
Q738	2	2	2	HT206452A0	Transistor 2SB645 (R or O)
J708	2	2	2	YJ05000260	Jack
J709	2	2	2	YJ05000260	Jack
J710	2	2	2	YJ05000260	Jack
J711	2	2	2	YJ05000260	Jack
				-	

• [H01-99] Packing Materials



(U): for U.S.A.(C): for Canada(N): for Europe

REF.	Q'TY		Υ	PART NO.	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
001S 002S 002S 002S 003S 004S 005S 901S 901S 901S 902S 902S 903S 903S 903S 905S 906S 907S	2 1 1 1 3	2 1 1 1 1 3 2	N 2 1 1 1 1 3 1 1	2990809010 9091111040 9014538450 9013025010 2918107210 2864804010 9526019010 9526019020 9560000040 9510901020 9526019060 2818813010 2918813010 9630000180 9650000050 2818854020	Cushion Polyethy Sheet Polyethy Bag Polyethy Bag Sheet Sleeve Serial No. Card Serial No. Card Hang Tag Labei Serial No. Card Envelope Envelope Guarantee Card S, Station Card Guarantee Card
		-			

REF.	C	YT'	Y	PART NO.	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
907S		1		2818854040	Guarantee Card
9088			1	2990851310	Instructions
9108	1	l	1	2731821010	Silicagel
9108	1			2990851010	Instructions
9108		1		2990851310	Instructions
9118	1		1	2990801010	Packing Case
9118		1		2990801150	Packing Case
9125		1		2886851100	Instructions
9128	1	ĺ		2990851020	Instructions
9128			1	2990851030	Instructions
9135	1			2225813010	Envelope
9148		1		2990851050	Instructions
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machine China T.Z.

8. ELECTRICAL PARTS LIST

• (U): for U.S.A, • (C): for Canada • (N): for Europe

REF.	-	ı'T	_	PART NO.	DESCRIPTION
DESIG.	U	С	N		
P400.	1	1	1	YG29780020 ZZ29781010	P400-PHONE AMP. CIRCUIT BOARD P.W. Board, Phono Amp. P.W. Board Assembly
C403 C404 C405 C406 C407 C408 C409 C410 C411	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF55681090 DF55681090 DF55681090 DF55681090 DF55681090 DF55681090 EA47503590 EA47503590 EQ10603510	$\begin{array}{llllllllllllllllllllllllllllllllllll$
C413 C414 C415 C416 C417 C418 C419 C420 C421 C422	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF74103010 DF74103010 DF74333010 DF74333010 EA22703590 EA22703590 DF17474510 DF17474510 DF15222300 DF15222300	$\begin{array}{llllllllllllllllllllllllllllllllllll$
C423 C424 C425 C426 C427 C428 C431 C432 C433 C434 C435 C436 C437 C438	1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA22701090 EA22701090 DF15103300 DF15103300 DF15103300 DF15472300 DF15472300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DK18473310 DK18473310	Elect $220\mu F$ $10V$ Elect $220\mu F$ $10V$ Film $0.01\mu F$ ±5% Film $0.01\mu F$ ±5% Film $0.01\mu F$ ±5% Film $0.047\mu F$ ±5% Film $0.0047\mu F$ ±5% Film $0.0047\mu F$ ±5% Ceramic $47pF$ ±5% Ceramic $0.047\mu F$ +100% -0 Ceramic $0.047\mu F$ +100% -0
R401 R402 R403 R404 R405 R406 R407 R408 R409 R410	1 1 1 1 1 1 1 1	11111111	1111111111	GD05101140 GD05101140 GD05104140 GD05104140 GM21426710 GM21426710 GM21426710 GM21426710 GD05471140 GD05471140	P400-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 100Ω 100Ω 100ΚΩ 100ΚΩ 2.67ΚΩ $\pm 2\%$ 2.67ΚΩ $\pm 2\%$ 2.67ΚΩ $\pm 2\%$ 470Ω $\pm 2\%$ 470Ω 470Ω
R411 R412 R413 R414 R415 R416 R417 R418 R419 R420	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GD05471140 GD05471140 GD05621140 GD05621140 GD05272140 GD05272140 GD05272140 GD05272140 GD05122140 GD05122140	470Ω 470Ω 620Ω 620Ω 2.7ΚΩ 2.7ΚΩ 2.7ΚΩ 1.2ΚΩ 1.2ΚΩ
•	R412 R413 R414 R415 R416 R417 R418 R419	R412 1 R413 1 R414 1 R415 1 R416 1 R417 1 R418 1 R419 1	R412 1 1 R413 1 1 R414 1 1 R415 1 1 R416 1 1 R417 1 1 R418 1 1 R419 1 1	R412	R412

REF.	С	1'T'	′	PART NO.	DESC	CRIPTION
DESIG.	U	С	N	PART NO.	DESC	SHIFTION
R421 R422 R423 R424 R425 R426 R427 R428 R429 R430	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05122140 GD05122140 GG05680140 GG05680140 GG05680140 GG05680140 GD05101140 GD05101140 GG05120140 GG05120140	1.2KΩ 1.2KΩ 68Ω 68Ω 68Ω 100Ω 100Ω 12Ω	
R431 R432 R433 R434 R435 R436 R437 R438 R439 R440	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	GG05120140 GG05120140 GD05393140 GD05393140 GM21413000 GM21475010 GM21475010 GM21475010 GD05101140 GD051011140	12Ω 12Ω 39ΚΩ 39ΚΩ 130Ω 130Ω 7.5ΚΩ 100Ω 100Ω	±2% ±2% ±2% ±2%
R441 R442 R443 R444 R445 R446 R447 R448 R449 R450	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	GM21490920 GM21490920 GD05472140 GD05472140 GD05101140 GD05101140 GD05104140 GD05104140 GG05470140	90.9KΩ 90.9KΩ 4.7KΩ 4.7KΩ 100Ω 100Ω 100ΚΩ 100ΚΩ 47Ω 47Ω	±2% ±2%
R451 R452 R453 R454 R455 R456	1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	GD05224140 GD05224140 GD05683140 GD05683140 GD05222140 GD05222140	220ΚΩ 220ΚΩ 68ΚΩ 68ΚΩ 2,2ΚΩ 2,2ΚΩ	
Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q410	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	HF201361Q0 HF201361Q0 HF201361Q0 HF201361Q0 HT322401B0 HT322401B0 HT109701B0 HT109701B0 HT109701B0 HT109701B0	P400-SEMIO F.E.T. F.E.T. F.E.T. Transistor Transistor Transistor Transistor Transistor Transistor	2SK136 (Q) 2SK136 (Q) 2SK136 (Q) 2SK136 (Q) 2SK136 (Q) 2SC2240 (BL) 2SC2240 (BL) 2SA970 (BL) 2SA970 (BL) 2SA970 (BL) 2SA970 (BL)
Q411 Q412 Q413 Q414 Q415 Q416 Q417 Q418 Q419 Q420	1 1 1 1 1 1 1	111111111	1 1 1 1 1 1 1 1	HT322401A0 HT322401A0 HT108722D0 HT108722D0 HT317752D0 HT317752D0 HT317752D0 HT317752D0 HT317752D0 HT08722D0	Transistor	2SC2240 (GR) 2SC2240 (GR) 2SA872A (D or E) 2SA872A (D or E) 2SC1775A (D or E) 2SA872A (D or E) 2SA872A (D or E)

REF.	C	2′T	Y				
DESIG.	_	С	N	PART NO.	DESCRIPTION		
0421	1	1	1	HT407571C0	Transistor 2SD757 (C)		
0422	1	1	1	HT407571C0	Transistor 2SD757 (C)		
0423	1	1	1	HT207171C0	Transistor 2SB717 (C)		
0424	i	1	1	HT207171C0	Transistor 2SB717 (C)		
Q424 Q425	li.	li	;	HV00002060	Varistor VD1212		
	1 -	ľ	1	HV00002060			
Q426	1		I .		Varistor VD1212		
Q427	1	1	1	HD20003210	Diode 1\$2471		
0428	1	1	1.	HD20003210	Diode 1S2471		
Q429	1	1	1	HD20003210	Diode 1S2471		
Q430	1	1	1	HD20003210	Diode 1S2471		
Q431	1	1	1	HD20003210	Diode 1S2471		
0432	1	1	1	HD20003210	Diode 1S2471		
Q433	1	1	1	HV00006120	Varistor MV203 (Y)		
Q434	li	i	1	HV00006120	Varistor MV203 (Y)		
	1 -	1	1				
Q435	1	Ι'		HV00004060	Varistor VD1210		
Q436	1	1	1	HV00004060	Varistor VD1210		
Q437	1	1	1	HD20003210	Diode 1S2471		
Q439	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
Q440	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
Q441	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
Q442	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
					B.00 M.00 F		
			١,		P400-MISCELLANEOUS		
J401	1	1	.1	YP06001650	Plug (10P)		
J402	1	1	1	YP06001650	Plug (6P)		
L401	1	1	1	LY20240120	Rellay		
L401	1'	'	'	L 1 20240120	Reliay		
	1				P600-LOUDNESS CONTOUR		
					CIRCUIT BOARD		
P600	1	1	1	YH29781220	P.W. Board, Loudness Contour		
	1	1	1	ZZ29781220	P.W. Board Assembly		
	Ι.	Ι.	١.		1.11, Dould 7 issembly		
					P600-CAPACITORS		
C601	1	1	1	DF15104300	Film 0.1µF ±5%		
C602	1	1	1	DF15104300	Film 0.1µF ±5%		
C603	li	i	1	DF15222300	Film 0.0022µF ±5%		
C604	li	li	1	DF15222300	Film 0.0022µF ±5%		
5557	1.	Ι΄	'	J 3222000	0.0022µ1 ±0/0		
					P600-RESISTORS		
R601	1	1	1	RG050300800	Variable, $250K\Omega \times 2$, $50K\Omega \times 2$		
R602	1	1	1 -	GD05153140	15KΩ ±5% ¼W		
R603	1	1	1	GD05153140	15KΩ ±5% ¼W		
R604	1	1	1	GD05332140	3.3KΩ ±5% 1/4W		
R605	1	i	1	GD05332140	3.3KΩ ±5% ¼W		
,							
					P700-MAIN AMP.		
	1				CIRCUIT BOARD		
P700	2	2	2	YK29901610	P.W. Board, Main Amp.		
	2	2	2	ZZ29901610	P.W. Board Assembly		
					2700 04 D4 017 C = C		
C701	2	2	2	DD15221370	P700-CAPACITORS Ceramic 220pF ±5%		
C701	2		2				
C702	2	2	2	EA10602590	Elect 10μF 25V		
C703	2	2	2	EA10602590	Elect 10µF 25V		
C704	2	2	2	DD15121370	Ceramic 120pF ±5%		
C705	2	2	2	DK16101500	Ceramic 100pF ±10% 500V		
C708	2	2	2	DD15100500	Ceramic 10pF ±5% 500V		
C709	2	2	2	EA10605090	Elect 10µF 50V		
C710	2	2	2	DF17104540	Film 0.1μF ±20% 100V		
C711	2	2	2	DF17104540	Film 0.1µF ±20% 100V		
C712	2	2	2	DF17104540	Film 0.1µF ±20% 100V		
0/12	1	-	1	21 17 104040	1 mm 0.1µ1 ±20% 100V		
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					• (N): for Europe
REF. DESIG.	<u> </u>	ΣT	-	PART NO.	DESCRIPTION
DESIG.	U	С	N		
C713 C714 C715 C716 C717 C718 C719 C720 C721 C722 C723	2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2	DF17104540 DF16472350 DF16472350 EA33502590 EA33502590 DF17103510 DF17104510 DF17474510 DF17474510 EA10710010	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R701 R702 R703 R704 R705 R708 R709 R710 R711	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	GD05474140 GD05471140 GD05104140 GD05561140 GD05561140 GD05203140 GD05102140 GD05181140 GD05102140 GD05102140	P700-RESISTORS (All Resistors are ±5% and ¼W) 470ΚΩ 470Ω 100ΚΩ 560Ω 560Ω 20ΚΩ 1ΚΩ 180Ω 1ΚΩ 2.2ΚΩ
R713 R714 R715 R716 R717 R718 R719 R720 R721 R722	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	GD05222140 GD05391140 GD05104140 GD05822140 GD05822140 GD05272140 GD05272140 RA02230050 GA05562010 GA05472010	$2.2 \text{K}\Omega$ 390Ω $100 \text{K}\Omega$ $8.2 \text{K}\Omega$ $8.2 \text{K}\Omega$ $2.7 \text{K}\Omega$ $2.7 \text{K}\Omega$ 7Trimming $22 \text{K}\Omega$ (B) $5.6 \text{K}\Omega$ 1W $4.7 \text{K}\Omega$ 1W
R723 R724 R725 R726 R727 R728 R729 R730 R731 R732	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2	GD05222140 GD05222140 GD05222140 GD05222140 GD05563140 GD05563140 GG05331140 GG05331140 GD05563140 GD05681140	2.2KΩ 2.2KΩ 2.2KΩ 2.2KΩ 56KΩ 56KΩ 330Ω 330Ω 3.3KΩ 680Ω
R733 R734 R735 R736 R737 R738 R739 R740 R741 R742	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2	RA01020270 GD05821140 GG05330140 GG05330140 GG05100140 GG05100140 GD05122140 GD05273140 GD05331140 GD05331140	Trimming 1KΩ (B) 820Ω 33Ω 10Ω 10Ω 1.2KΩ 27KΩ 330Ω 330Ω
R743 R744 R745 R746 R747	2 2 2 2	2 2 2 2 2	2 2 2 2	GD05682140 GD05682140 GD05911140 GD05911140 GD05911140	6.8KΩ 910Ω 910Ω 910Ω

• (U): for U.S.A. • (C): for Canada • (N): for Europe

REF.	C	Ω'T`	Y	PART NO.	DESC	RIPTION
DESIG.	U	C	N	PARTINO.	DESC	MIPTION
	+-		\vdash			
R748	2	2	2	GD05911140	910Ω	
R749	2	2	2	GD05203140	20 K Ω	
R750	2	2	2	GG05331120	330Ω	1/2W
R751	2	2	2	GA05560010	56Ω	1W
R752	2	2	2	GG05100120	10Ω	1/2W
R753	2	2	2	GG05100120	10Ω	1/2W
R754	2	2	2	GG05100120	10Ω	1/2W
R755	2	2	2	GG05100120	10Ω	1/2W
R756	2	2	2	GG05047140	4.7Ω	
R757	2	2	2	GG05047140	.4.7Ω	
R758	2	2	2	GG05047140	4.7Ω	
R759	2	2	2	GG05047140	4.7Ω	
R760	2	2	2	GW10272050	0.27Ω	±10% 5W
R761	2	2	2	GW10272050	0.27Ω	±10% 5W
R762	2	2	2	GW10272050	0.27Ω	±10% 5W
R763	2	2	2	GW10272050	0.27Ω	±10% 5W
R764	2	2	2	GA05100030	10Ω	3W
R765	2	2	2	GA05022020	2.2Ω	2W
	2	2	2	GA05022020	10Ω	1W
R766	2	2	4	GAUSTUUUTU	1022	IVV
						CONDUCTORS
Q701	2	2	2	HC10003200	IC	2SK109 (C or D)
Q702	2	2	2	HT322592F0	Transistor	2SC2259 (F or G)
Q703	2	2	2	HT109701A0	Transistor	2SA970 (GR)
Q704	2	2	2	HT322401J0	Transistor	2SC2240 (GR)
Q705	2	2	2	HT109701A0	Transistor	2SA970 (GR)
0706	2	2	2	HT109701J0	Transistor	2SA970 (GR)
0707	2	2	2	HT322401J0	Transistor	2SC2240 (GR)
Q708	2	2	2	HT109491B0	Transistor	2SA949 (Y)
0709	2	2	2	HT322291B0	Transistor	2SC2229 (Y)
Q710	2	2	2	HT109701B0	Transistor	2SA970 (BL)
		_	_		_	
Q711	2	2	2	HT318152A0	Transistor	2SC1815 (O or Y)
Q712	2	2	2	HT110152A0	Transistor	2SA1015 (O or Y
Q713	2	2	2	HT407571C0	Transistor	2SD757 (C)
Q714	2	2	2	HT207171C0	Transistor	2SB717 (C)
Q715	2	2	2	HT322381C0	Transistor	2SC2238B (O or Y
Q716	2	2	2	HT109681C0	Transistor	2SA968B (O or Y)
Q717	2	2	2	HD30025090	Zener	WZ150
Q718	2	2	2	HD30025090	Zener	WZ150
Q719	2	2	2	HD20003210	Diode	1\$2471
Q720	2	2	2	HD20003210	Diode	1\$2471
0721		2	2	UD20002210	Diada	100471
Q721	2	2	2	HD20003210	Diode	1S2471 1S2471
Q722	2	2	_	HD20003210 HD20010210	Diode	152471 1S2471G
Q723	1 -	1 -	2		Diode	
Q724	2	2	2	HD20010210	Diode	1S2471G
Q725	2	2	2	HV00002120	Varistor	SV-3A
Q726	2	2	2	HD20001210	Diode	1S2473
Q727	2	2	2	HD20001210	Diode	1S2473
Q728	2	2	2	HD20003210	Diode	1S2471
Q729	2	2	2	HD20003210	Diode	1S2471
Q730	2	2	2	HD20003210	Diode	1S2471
Q731	2	2	2	HD20003210	Diode	182471
Q731	2	2	2	HD20003210	Diode	W06C
Q732	2	2	2	HD20011010	Diode	W06C
Q734	2	2	2	HT315681S0	Transistor	2SC1568 (S)
Q735	2	2	2			
				HT406652A0	Transistor	2SD665 (R or O)
Q736	2	2	2	HT206452A0	Transistor	2SB645 (R or O)
0737	2	2	2		Transistor	2SD665 (R or O)
Q738	2	2	2	HT206452A0	Transistor	2SB645 (R or O)
0739	2	2	2	HD20001210	Diode	182473
Q740	2	2	2	HD20001210	Diode	1S2473
1						

REF.		γ'Τ	Υ	PART NO.	DESCRIPTION
DESIG.	U	С	N	PARTINO.	DESCRIPTION
				-	
		_		VP00004040	P700-MISCELLANEOUS
J701	2	2	2	YP06001040	Plug, (3P)
J702	2	2	2	YP06000520	Plug, (4P)
J703	2	2	2	YP06001040	Plug, (3P)
J704	2	2	2	YJ06001960	Jack, (3P)
J705	2	2	2	YJ06001960	Jack, (3P)
J706	2	2 2	2	YJ06001960 YJ06001960	Jack, (3P) Jack, (3P)
J707	2	2	2	YJ050001960	Jack, (3P) Jack, TR. Socket
J708 J709	2	2	2	YJ05000260	Jack, TR. Socket
J710	2	2	2	YJ05000260	Jack, TR. Socket
J711	2	2	2	YJ05000260	Jack, TR. Socket
3/11	12	_	-	1303000200	back, III, bocket
L701	2	2	2	LL23915120	Choke Coil 0.8µH
0701	2	2	2	YK29901620	P.W. Board, Power Tr. Socket
P701	2	2	2	ZZ29901620	P.W. Board Assembly
	-	2	4	2229901620	F.W. Board Assembly
J712	2	2	2	YP06001640	Plug, (3P)
3/12	12	12	2	1100001040	1109, (317
P702	2	2	2	YK29901630	P.W. Board, Power Tr. Socket
	2	2	2	ZZ29901630	P.W. Board Assembly
J713	2	2	2	YP06001640	Plug, (3P)
		_	١.		
P703	2	2	2	YK29901640	P.W. Board, Power Tr. Socket
	2	2	2	ZZ29901640	P.W. Board Assembly
				V000004040	D) (2D)
J714	2	2	2	YP06001640	Plug, (3P)
P704	2	2	2	YK29901650	P.W. Board, Power Tr. Socket
F704	2	2	2	ZZ29901650	P.W. Board Assembly
	12	12	-	2229901030	1.W. Board Assembly
J715	2	2	2	YP06001640	Plug, (3P)
1		1			
					P800-POWER SUPPLY
					CIRCUIT BOARD
P800	1	1	1	YF29900040	P.W. Board, Power Supply
	1	1		ZZ29900040	P.W. Board Assembly
			1	ZZ29908040	P.W. Board Assembly
					P800-CAPACITORS
C801	1	1	1	DK18103510	Ceramic 0.01µF 500V
	1	ľ	1	DK18103510	Ceramic 0.01µF 500V
C802 C803	li	1	1	DF17474510	Film 0,47µF ±20% 250V
C804	1	1	1	DF17474510	Film 0.47μ F $\pm 20\%$ 250V
C805	1	1	1	EB10805060	Elect 1000µF 50V
C806	1	1	1	EB10805060	Elect 1000µF 50V
C807	li	1	1	DF15103350	Film 0.01 µF ±5%
C808	1	1	1	DF15103350	Film 0.01µF ±5%
C809	1	li	1	EA10701090	Elect 100µF 10V
C810	1	1	1	EA47503590	Elect 4.7µF 35V
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REF.	C	YT	Y	DART NO	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
C811	1	1	1	EA47503590	Elect 4.7μF 35V
C812	1	1	1	EA10803590	Elect 1000μF 35V
C813	1	1	1	EA10803590	Elect 1000μF 35V
C814	1	1	1	DF17474510	Film 0.47µF ±20% 250V
C815	1	1	1	DF17474510	Film 0.47µF ±20% 250V
				-	P800-RESISTORS (All Resistors are ±5% and ¼W)
R803	1	1	1	GD05102140	1ΚΩ
R804	1	1	1	GD05102140	1ΚΩ
R807	1	1	1	GG05682120	6.8KΩ ½W
R808	1	1	1	GD05473140	47ΚΩ
R809	1	1	1	GD05103140	10ΚΩ
R810	1	1	1	RA04720050	Trimming 4,7KΩ (B)
R811	1	1	1	GD05473140	47ΚΩ
R812	1	1	1	GD05473140	47ΚΩ
R813	1	1	1	GD05162140	1,6ΚΩ
R814	1	1	1	GG05151140	150Ω
R815	1	1	1	GG05151140	150Ω
					P800-SEMICONDUCTORS
Q801	1	1	1	HF200301C0	F.E.T. 2SK30A (Y)
Q802	1	1	1	HF200301C0	F.E.T. 2SK30A (Y)
O803	1	1	1	HT315091Q0	Transistor 2SC1509 (Q)
Q804	1	1	1	HT107771Q0	Transistor 2SA777 (Q)
Q805	1	1	1	HT403132P0	Transistor 2SD313 (D or E)
Q806	1	1	1	HT205072P0	Transistor 2SB507 (D or E)
Ω807	1	1	1	HT322402A0	Transistor 2SC2240 (GR or BL)
Q808	1	1	1	HT109702A0	Transistor 2SA970 (GR or BL)
Q809	1	1	1	HE10001030	Diode DS133B
Q810	1	1	1	HE10001030	Diode DS133B
Q811	1	1	1	HD30008010	Zener HZ-6L (B)
7				,	P800-MISCELLANEOUS
F801	1	1		FS10100080	Fuse 1A
F801		. (1	FS10100800	Fuse 1AT
F802	1	1		FS10100080	Fuse 1A
F802			1	F\$10100800	Fuse 1AT
J801					
J804	4	4		YJ08000170	Jack, Fuse Holder
J801					
>			4	YJ08000270	Jack, Fuse Holder
J804					
					PE00-PRE AMP.
2500			١.	VA10070040	CIRCUIT BOARD
PE00	1	1	1	YN29782210	P.W. Board, Pre Amp.
	1	1	1	ZZ29781040	P.W. Board Assembly
					PE00-CAPACITORS
CD01	1	1	1	DF16103300	Film 0.01µF ±10%
CD03	1	1	1	EA10701090	Elect 100μF 10V
	1	ľ			
CE01	1	1	1	DD15330370	Ceramic 33pF ±5%
CE02	1	1	1	DD15330370	Ceramic 33pF ±5%
CE03	1	1	1	DF15152350	Film 0.0015µF ±5%
CE04	1	1	1	DF15152350	Film 0.0015µF ±5%
CE05	1	1	1	EA22701090	Elect 220μF 10V
CE06	1	1	1	EA22701090	Elect 220µF 10V
CE07	1	1	1	DF15152350	Film 0.0015µF ±5%
CE08	1	1	1	DF15152350	Film 0.0015µF ±5%
CE09	1	1	1	EA10601690	Elect 10μF 16V
CE10	1	1	1	EA10601690	Elect 10µF 16V
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REF. DESIG.	U	C C	N	PART NO.	DESCRIPTION
CE11 CE12 CE13 CE14 CE15 CE16 CE17 CE18 CE19 CE20	1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DD15360300 DD15360300 EQ10603510 EQ10603510 DD15330300 DD15330300 EA10703590 EA10703590 DF17474510	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
CE23 CE24 CE25 CE26 CE27 CE28 CE29 CE30 CE31 CE32 CE33 CE34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DF15152350 DF15152350 DF15152350 DF15152350 DD15360300 DD15360300 EA10601690 EA10601690 EQ10603510 EQ10603510 DD15330300 DD15330300	Film $0.0015\mu F \pm 5\%$ Film $0.0015\mu F \pm 5\%$ Film $0.0015\mu F \pm 5\%$ Film $0.0015\mu F \pm 5\%$ Ceramic $36pF \pm 5\%$ Ceramic $36pF \pm 5\%$ Elect $10\mu F = 16V$ Elect $10\mu F = 35V$ Elect $10\mu F = 35V$ Elect $10\mu F = 35V$ Ceramic $33pF \pm 5\%$ Ceramic $33pF \pm 5\%$
CH01 CH02 CH03 CH04 CH05 CH06 CH07 CH08 CH09 CH10	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF16104300 DF16104300 EA47503590 EA47503590 EA33603590 EA33603590 EA10703590 EA10703590 DF17474510 DF17474510	$ \begin{array}{llllllllllllllllllllllllllllllllllll$
CH11 CH12 CH13 CH14 CH15 CH16 CH17 CH18 CH19 CH20	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	DF15224300 DF15224300 DF15224300 DF15224300 DF15224300 DF15224300 DF15152350 DF15152350 DF15152350 DF15222350	Film 0.22µF ±5% Film 0.0015µF ±5% Film 0.0015µF ±5% Film 0.0022µF ±5% Film 0.0022µF ±5%
CH21 CH22 CH23 CH24 CH25 CH26 CH27 CH28	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	DF55391090 DF55391090 DF15683300 DF15683300 DF15683300 DF15683300 DF15182350 DF15182350	Film 390pF ±5% Film 390pF ±5% Film 0.068μF ±5% Film 0.068μF ±5% Film 0.068μF ±5% Film 0.068μF ±5% Film 0.0018μF ±5% Film 0.0018μF ±5%

• (U): for U,S,A. • (C): for Canada • (N): for Europe

REF.	C)T	Υ	PART NO.	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
RD01 RD04 RD05 RD06 RD07 RD08 RD09	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	GA05472010 GD05103140 GD05304140 GD05104140 GD05753140 GD05103140 GD05153140	. PE00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) $4.7 \mathrm{K}\Omega$ $1W$ $10 \mathrm{K}\Omega$ $300 \mathrm{K}\Omega$ $100 \mathrm{K}\Omega$ $75 \mathrm{K}\Omega$ $10 \mathrm{K}\Omega$
RD10 RD11	1	1	1	GD05182140 GD05101140	1.8KΩ 100Ω
RE01 RE02 RE03 RE04 RE05 RE06 RE07 RE08 RE09 RE10	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05331140 GD05331140 GD05224140 GD05222140 GD05222140 GD05222140 GD05222140 GD05222140 GD05101140 GD051011140	330Ω 330Ω 220ΚΩ 220ΚΩ 2.2ΚΩ 2.2ΚΩ 2.2ΚΩ 100Ω 100Ω
RE11 RE12 RE13 RE14 RE15 RE16 RE17 RE18 RE19 RE20	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05101140 GD05101140 GD05153140 GD05153140 GD05560140 GD05560140 GD05182140 GD05182140 GD05222140 GD05222140	100Ω 100Ω 15ΚΩ 15ΚΩ 56Ω 56Ω 1.8ΚΩ 1.8ΚΩ 2.2ΚΩ
RE21 RE22 RE23 RE24 RE25 RE26 RE27 RE28 RE29 RE30	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05222140 GD05222140 GD05151140 GD05151140 GD05151140 GD05151140 GD05473140 GD05473140 GD05473140 GD05473140	2.2KΩ 2.2KΩ 150Ω 150Ω 150Ω 150Ω 47KΩ 47KΩ 47KΩ 47KΩ
RE31 RE32 RE33 RE34 RE35 RE36 RE37 RE38 RE39 RE40	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05560140 GD05560140 GD05102140 GD05102140 GG05270140 GG05270140 GG05270140 GG05270140 GD05047140 GD05047140	56Ω 56Ω 1KΩ 1KΩ 27Ω 27Ω 27Ω 27Ω 4,7Ω 4,7Ω
RE41 RE42 RE43 RE44 RE45 RE46 RE49 RE50 RE51 RE52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GD05104140 GD05104140 GD05183140 GD05183140 GD05331140 GD05222140 GD05222140 GD05222140 GD05222140	100ΚΩ 100ΚΩ 18ΚΩ 18ΚΩ 330Ω 330Ω 2.2ΚΩ 2.2ΚΩ 2.2ΚΩ

			_	• (N): for Europe					
REF. DESIG.	U	C C	Y N	PART NO.	DESC	RIPTION			
		_	-		**				
RE53	1	1	1	GD05101140	100Ω				
RE54	'n	1	1	GD05101140	100Ω				
RE55	li	1	1	GD05101140	100Ω				
RE56	l i	1	1	GD05101140	100Ω				
RE57	li	i	1	GD05153140	15ΚΩ				
RE58	i	i	i	GD05153140	15ΚΩ				
RE59	1	ľ	i	GD05733140	2.2ΚΩ				
RE60	li	1	1	GD05222140	2.2ΚΩ				
RE61	1	1	1	GD05222140	2.2ΚΩ				
RE62	i	1	1	GD05222140	2,2ΚΩ				
RE63	1	1	1	GD05560140	56Ω				
RE64	1	1	1	GD05560140	56Ω				
RE65	1	1	1	GD05560140	56Ω				
RE66	1	1	1	GD05560140	56Ω				
RE67	1	1	1	GD05473140	47KΩ				
RE68	1	1	1	GD05473140	47KΩ				
RE69	1	1	1	GD05473140	47KΩ				
RE70	1	1	1	GD05473140	47KΩ				
RE71	1	1	1	GD05151140	150Ω				
RE72	1	1	1	GD05151140	150Ω				
RE73	1	1	1	GD05151140	150Ω				
RE74	1	1	1	GD05151140	150Ω				
RE75	1	1	1	GD05102140	1ΚΩ				
RE76	1	1	1	GD05102140	1ΚΩ	•			
R E77	1	1	1	GG05270140	27Ω				
RE78	1	1	1	GG05270140	27Ω				
RE79	1	1	1	GG05270140	27Ω				
RE70	1	1	1	GG05270140	27Ω				
RE83	1	1	1	GD05104140	100KΩ				
RE84	1	1	1	GD05104140	. 100ΚΩ				
RE85	1	1	1	GD05105140	1MΩ				
RE86	1	1	1	GD05105140	1MΩ				
RE87	1	1	1	GA05680010	68Ω	1W			
RE88	1	1	1	GA05680010	68Ω	1W			
RH01	1	1	1	GD05331140	330Ω				
RH02	1	1	1	GD05331140	330Ω				
RH03	1	1	1	GD05471140	470Ω	1			
RH04	1	1	1,	GD05471140	470Ω				
RH05	1	1	1	GD05471140	470Ω	•			
RH06	1	1	1	GD05471140	470Ω				
RH07	1	1	1	GD05332140	3.3KΩ				
RH08	1	1	1	GD05332140	3.3KΩ				
RH09	1	1	1	GD05332140	3,3ΚΩ				
RH10	1	1	1	GD05332140	3.3ΚΩ				
RH11	1	1	1	GD05104140	100ΚΩ				
RH12	1	1	1	GD05104140	100KΩ				
RH13	1	1	1	GD05101140	100Ω				
RH14	1	1	1	GD05101140	100Ω				
RH15	1	1	1	GD05101140	100Ω				
RH16	1	1	1	GD05101140	100Ω				
RH17	1	1	1	GG05047140	4.7Ω				
RH18	1	1	1	GG05047140	4.7Ω				
RH19	1	1	1	GG05047140	4.7Ω				
RH20	1	1	1	GG05047140	4.7Ω				
	L								

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REF. DESIG.	U	_	N	PART NO.	DES	CRIPTION	REF.
RH21 RH22 RH23 RH24 RH25	1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	GD05105140 GD05105140 GD05104140 GD05104140 GA05680010	1ΜΩ 1ΜΩ 100ΚΩ 100ΚΩ 68Ω	1W	QE22 QE23 QE24 QE24
RH26 RH27 RH28 RH29 RH30	1 1 1 1	1 1 1 1	1 1 1 1	GA05680010 GD05393140 GD05393140 GD05153140 GD05153140	68Ω 39ΚΩ 39ΚΩ 15ΚΩ 15ΚΩ	1W	QE26 QE26 QE26 QE36
RH31 RH32 RH33 RH34 RH35 RH36 RH37	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	GD05304140 GD05304140 GD05113140 GD05113140 GD05113140 GD05113140 GD05113140	300KΩ 300KΩ 11KΩ 11KΩ 11KΩ 11KΩ		QE31 QE32 QE33 QE34 QE36
RH38 RH39 RH40	1 1 1	1 1 1	1 1 1	GD05113140 GD05182140 GD05182140	11ΚΩ 1.8ΚΩ 1.8ΚΩ		QH0: QH0: QH0:
RH41 RH42 RH43 RH44 RH45 RH46 RH47 RH48 RH49	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	GD05153140 GD05153140 GD05224140 GD05224140 GD05101140 GD05101140 GD05150140 GD05150140 GD05150140	15ΚΩ 15ΚΩ 220ΚΩ 220ΚΩ 100Ω 100Ω 15Ω 15Ω		QH00 QH00 QH00 QH00 QH10 QH11 QH11
RH50	1	1	1	GD05150140	15Ω		LD01
QD01 QD02 QD03 QD05 QD06	1 1 1 1 1	1 1 1 1	1 1 1 1 1	HT110152A0 HT318152A0 HT318152A0 HD20003210 HD20003210	PE00-SEMI Transistor Transistor Transistor Diode Diode	2SA 1015 (O or Y) 2SC 1815 (O or Y) 2SC 1815 (O or Y) 2SC 1815 (O or Y) 1S2471 1S2471	JH01 JH02 JH03 SH01
QE01 QE02 QE03 QE04 QE05 QE06	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	HF201172B0 HF201172B0 HF201172B0 HF201172B0 HT108722D0 HT108722D0	F.E.T. F.E.T. F.E.T. F.E.T. Transistor Transistor	2SK117 (Y or GR) 2SK117 (Y or GR) 2SK117 (Y or GR) 2SK117 (Y or GR) 2SA872A (D or E) 2SA872A (D or E)	PF00
QE07 QE08 QE09 QE10	1 1 1	1 1 1	1 1 1	HT108722D0 HT108722D0 HT317752D0 HT317752D0	Transistor Transistor Transistor Transistor	2SA872A (D or E) 2SA872A (D or E) 2SC1775A (D or E) 2SC1775A (D or E)	CF01 CF02 CF03
QE11 QE12 QE13 QE14 QE15 QE16 QE17 QE18 QE19 QE20	11111111	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	HT406661C0 HT406661C0 HT206461C0 HT206461C0 HF201172B0 HF201172B0 HF201172B0 HF201172B0 HT108722D0 HT108722D0	Transistor Transistor Transistor Transistor F.E.T. F.E.T. F.E.T. Transistor Transistor	2SA666 (C) 2SA666 (C) 2SB646 (C) 2SB646 (C) 2SK117 (Y or GR) 2SA872A (D or E) 2SA872A (D or E)	CF04 CF06 CF07 CF08

					• (N): for Europe	
REF.			PART NO.	DESCRIPTION		
DESIG.	U	С	N	.,		
QE21 QE22	1 1	1	1	HT108722D0 HT108722D0	Transistor 2SA872A (D or E) Transistor 2SA872A (D or E)	
QE23	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)	
QE24	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)	
QE25	1	1	1	HT406661C0	Transistor 2SD666 (C)	
QE26 QE27	1	1	1	HT406661C0 HT206461C0	Transistor 2SD666 (C) Transistor 2SB646 (C)	
QE28	li	ľ	1	HT206461C0	Transistor 25B646 (C)	
QE29	1	1	1	HD20003210	Diode 1S2471	
QE30	1	1	1	HD20003210	Diode 1S2471	
QE31	1	1	1	HV00006120	Varistor MV203 (Y)	
QE32	1	1	1	HV00006120	Varistor MV203 (Y)	
QE33	1	1	ł	HD20003210	Diode 1S2471	
QE34	1	1	1	HD20003210 HV00006120	Diode 1S2471 Varistor MV203 (Y)	
QE35	i	1	1	HV00006120	Varistor MV203 (Y)	
QH01	1	1	1	HT108722D0	Transistor 2SA872 (D or E)	
QH02	i	i	1	HT108722D0	Transistor 2SA872 (D or E)	
QH03	1	1	1	HT317752D0	Transistor 2SC1775 (D or E)	
QH04	1	1	1	HT317752D0	Transistor 2SC1775 (D or E)	
QH05	1	1	1	HT322401A0	Transistor 2SC2240 (GR)	
QH06 QH07	1	1	1	HT322401A0	Transistor 2SC2240 (GR) Transistor 2SA970 (GR)	
QH08	li.	1	1	HT109701A0 HT109701A0	Transistor 25A970 (GR)	
QH09	li	1	1	HT406661C0	Transistor 2SD666 (C)	
QH10	1	1	1	HT406661C0	Transistor 2SD666 (C)	
QH11	1	1	1	HT206461C0	Transistor 2SB646 (C)	
QH12	1	1.	1	HT206461C0	Transistor 2SB646 (C)	
LD01	1	1	1	LY20240120	PE00-MISCELLANEOUS Relay	
JH01	1	1	1	YP06001160	Plug, (12P)	
JH02	1	1.	1	YP06001140	Plug, (7P)	
JH03	1	1	1	YP06001140	Plug, (7P)	
SH01	1	1	1	SP04060090	Push Switch	
		,			PF00-TONE VR.	
		_			CIRCUIT BOARD	
PF00	2	2	2	YN29782240 ZZ29782240	P.W. Board, Tone VR. P.W. Board Assembly	
			-			
CF01	2	2	2	DF15153300	PF00-CAPACITORS Film 0.015μF ±5%	
CF01	2	2	2	DF15153300	Film 0.015µF ±5%	
CF03	2	2	2	DF15562300	Film 0.0056µF ±5%	
CF04	2	2	2	DD15331370	Ceramic 330pF ±5%	
CF05	2	2	2	DF15562300	Film 0.0056μF ±5%	
CF06	2	2	2	DF15103300	Film 0.01µF ±5% Film 0.01µF ±5%	
CF07 CF08	2	2	2	DF15103300 DD15221370	Film 0.01µF ±5% Ceramic 220pF ±5%	
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• (U): for U.S.A. • (C): for Canada • (N): for Europe

REF.	QΉΥ		Y	DARTNO	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
RF01 RF02 RF03 RF04 RF05 RF06 RF07 RF08 RF09 RF11 RF12 RF13	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	RX01040040 RX01040040 RX01040040 GD05183140 GD05273140 GD05273140 GD05562140 GD05562140 GD05562140 GD05562140 GD05562140 GD05562140	PF00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) Variable, Bass Variable, Mid Variable, Treble $18 \mathrm{K}\Omega$ $27 \mathrm{K}\Omega$ $27 \mathrm{K}\Omega$ $5.6 \mathrm{K}\Omega$ $3.9 \mathrm{K}\Omega$ $5.6 \mathrm{K}\Omega$ $5.6 \mathrm{K}\Omega$
JF01 JF02	2 2	2 2	2	YJ06001970 YJ06001980	PF00-JACK Jack, (10P) Jack, (6P)
PF01	2 2 2	2 2 2	2 2 2	YN29782220 ZZ29782220 YP06001670	PF01-TONE VR CONNECTOR CIRCUIT BOARD P.W. Board, Tone VR Connector P.W. Board Assembly Plug, (16P)
PG00 CG01 CG02	1 1 1 1	1 1 1 1 1	1 1 1 1 1	YN29782230 ZZ29781100 DF16104300 DF16104300	PG00-VOLUME BUFFER CIRCUIT BOARD P.W. Board, Volume Buffer P.W. Board Assembly PG00-CAPACITORS Film 0.1µF ±10% Film 0.1µF ±10%
CG05 CG06	1	1	1	EA33603590 EA33603590	Elect 33μ F $35V$ Elect 33μ F $35V$ PG00-RESISTORS
RG01 RG03 RG04 RG05 RG06 RG07 RG08 RG09 RG10 RG11	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1	RG05030070 GD05471140 GD05471140 GD05471140 GD05471140 GD05332140 GD05332140 GD05332140 GD05332140 GD05332140	(All Resistors are $\pm 5\%$ and $\%$ W) Variable $50 \mathrm{K}\Omega \times 4$ 470Ω 470Ω 470Ω 470Ω $3.3 \mathrm{K}\Omega$ $3.3 \mathrm{K}\Omega$ $3.3 \mathrm{K}\Omega$ $3.3 \mathrm{K}\Omega$
RG12 RG13 RG14 RG15 RG16 RG17 RG18 RG19 RG20 RG21	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	GD05104140 GD05101140 GD05101140 GD05101140 GD05101140 GG05047140 GG05047140 GG05047140 GG05047140 GD05224140	100ΚΩ 100Ω 100Ω 100Ω 100Ω 4.7Ω 4.7Ω 4.7Ω 4.7Ω 220ΚΩ

REF.	C	QTY			D FOOD IST 1011
DESIG.	U	_	N	PART NO.	DESCRIPTION
	1	-			
RG22	1	1	1	GD05224140	220ΚΩ
RG23	li	1	1	GD05224140	220ΚΩ
RG24	ľ	1	1	GD05224140	220ΚΩ
RG25	1	i	'n	GD05224140	330Ω
RG26	li	1	1	GD05331140	330Ω
RG27	li	i	i	GD05331140	1ΚΩ
	1	1	1	GD05102140	1ΚΩ
RG28	li	1	1	GD05150140	15Ω
RG29 RG30	1	1	1	GD05150140	15Ω
RG31	1	'n	1	GD05150140	15Ω
RG32	1	1	1	GD05150140	15Ω
nusz	'	١'	'	GD05150140	1342
					PG00-SEMICONDUCTORS
QG01	1	1	1	HT108722D0	Transistor 2SA872A (D or E
QG02	1	1	1	HT108722D0	Transistor 2SA872A (D or E
QG03	1	1	1	HT317752D0	Transistor 2SC1775A (D or E
QG04	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QG05	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
QG06	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
QG07	1	1	1	HT109701A0	Transistor 2SA970 (GR)
QG08	1	1	1	HT109701A0	Transistor 2SA970 (GR)
QG09	1	1	1	HT406661C0	Transistor 2SD666 (C)
QG10	1	1	1	HT406661C0	Transistor 2SD666 (C)
QG11	1	1	1	HT206461C0	Transistor 2SB646 (C)
QG12	1	1	1	HT206461C0	Transistor 2SB646 (C)
					DOGO MICOTI I ANEOLIO
1004				V 100001000	PG00-MISCELLANEOUS
JG01	1	1	1	YJ06001660	Jack, (7P)
JG02	1	1	1	YJ06001660	Jack, (7P)
SG01	1	1	1	SR04050180	Rotary Switch
					PJ00-SELECTOR SWITCH
					CIRCUIT BOARD
PJ00	1	1	1	YF29780030	P.W. Board, Selector Switch
	1	1	1	ZZ29780030	P.W. Board Assembly
CJ01	1	1	1	EA47503590	Elect Cap. 4.7µF 35V
					PJ00-MISCELLANEOUS
JJ01	1	1	1	YJ06001970	Jack, (10P)
JJ02	1	1	1	YJ06001980	Jack, (6P)
1103	1	1	1	YJ06001680	Jack, (12P)
0.101	1	1	1	SP06060100	Push Switch, Input
SJ01	1	1	1		Rotary Switch, Record, 1
SJ02	1	1	1	SR04050170	Rotary Switch, Record, 1
SJ03	'	'	'	3N04030170	Trotaly Switch, Necolu, 2
					PK00-TAPE EQ
					CIRCUIT BOARD
PK00	1	1	1	YF29780040	P.W. Board, Tape EQ
	1	1	1	ZZ29780040	P.W. Board Assembly
					PK00-CAPACITORS
CK01	1	1	1	DF16104300	Film 0.1µF ±10%
CK02	1	1	1	DF16104300	Film 0.1µF ±10%
CK02	1	i	1	EA10603590	Elect 10μF 35V
CK04	1	1	1	EA10603590	Elect 10µF 35V
CK04	1	1	1	EA10605090	Elect 10µF 50V
CK06	1	1	1	EA10605090	Elect 10µF 50V
CK08	1	1	1	EA10703590	Elect 100µF 35V
CK09	1	1	1	EA10703590	Elect 100µF 35V
CK11	1	1	1	DF16222300	Film 0.0022µF ±10%
CK12	1	1	1	DF16222300	Film 0.0022µF ±10%
OKIZ	1'	١,	Ι'	D. 10222000	0,0022pt = 10/0
	1	1	1		

REF.	0	ידי	\Box	PART NO.	DESCRIPTION
DESIG.	U	С	N	PARTINO.	DESCRIPTION
					PK00-RESISTORS (All Resistors are ±5% and ¼W)
DK01	1	1	1	GD05331140	330Ω
RK01 RK02	1	1	1	GD05331140	330Ω
RK02	1	i	1	GD05471140	470Ω
RK04	1	1	1	GD05471140	470Ω
RK05	1	1	1	GD05471140	470Ω
RK06	1	1	1	GD05471140	470Ω
RK07	1	1	1	GD05332140	3.3KΩ
RK08	1	1	1	GD05332140	3,3ΚΩ
RK09	1	1	1	GD05332140	3.3ΚΩ
RK10	1	1	1	GD05332140	3.3ΚΩ
RK11	1	1	1	GD05104140	100ΚΩ
RK12	1	1	1	GD05104140	100ΚΩ
RK13	1	1.	1	GD05101140	100Ω
RK14	1	1	1	GD05101140	100Ω
RK15	1	1	1	GD05101140	100Ω
RK16	1	1	1	GD05101140	100Ω
RK17	1	1	1	GD05047140	4.7Ω
RK18	1	1	1	GD05047140	4.7Ω
RK19 RK20	1 1	1	1	GD05047140 GD05047140	4.7Ω 4.7Ω
		ľ			
RK21	1	1	1	GD05047140	4.7Ω
RK22	1	1	1	GD05047140	4.7Ω
RK23	1	1	1	GD05104140	100KΩ 100KΩ
RK24	1	1	1	GD05104140 GF05151120	150Ω ½W
RK25 RK26	l'i	1	1	GF05151120	150Ω ½W
RK27	li	1	1	GD05224140	220ΚΩ
RK28	1	Ιi	1	GD05224140	220ΚΩ
RK29	1	1	1	GD05150140	15 Ω
RK30	1	1	1	GD05150140	15 Ω
RK31	1	1	1	GD05150140	15Ω
RK32	1	1	1	GD05150140	15Ω
					PK00-SEMICONDUCTORS
QK01	1	1	1	HT108722D0	Transistor 2SA872A (D or E
QK02	1	1	1	HT108722D0	Transistor 2SA872A (D or E
QK03	1	1	1	HT317752D0	Transistor 2SC1775A (D or E
QK04	1	1	1	HT317752D0 HT322401A0	Transistor 2SC1775A (D or E Transistor 2SC2240 (GR)
QK05	1	1	1	HT322401A0	Transistor 2SC2240 (GR) Transistor 2SC2240 (GR)
QK06 QK07	1	1	1	HT109701A0	Transistor 25A970 (GR)
QK08	li	li	1	HT109701A0	Transistor 2SA970 (GR)
QK09	1	Ιi	1	HT406661C0	Transistor 2SD666 (C)
QK10	1	li	1	HT406661C0	Transistor 2SD666 (C)
QK11	1	1	li	HT206461C0	Transistor 2SB646 (C)
QK12	1	1	1	HT206461C0	Transistor 2SB646 (C)
•					PK00-MISCELLANEOUS
JK01	1	1	1	YP06001580	Plug, (12P)
JK02	1	i	1	YJ06001680	Jack, (12P)
01/04				0000000000	Switch
SK01 SK02	1	1	1	SC00030010 SB11000010	Switch Switch Band, Flx
SK02 SK03	1	1	1	\$\$11000010 \$\$10040010	Slide Switch

					• (N): for Europe
REF. DESIG.	U	C C	/ N	PART NO.	DESCRIPTION
PL00	1 1	1	1	YH29781210 ZZ29781210	PL00-CARTRIDGE LOAD CIRCUIT BOARD P.W. Board, Cartridge Load P.W. Board Assembly
CL01 CL02	1 1	1	1	DD15390300 DD15390300	PL00-CAPACITORS Ceramic 39pF ±5% Ceramic 39pF ±5%
CL03 CL04 CL05 CL06 CL07	1 1 1 1 1	1 1 1 1	1 1 1 1	DF55101090 DF55101090 DF55221090 DF55221090 DF55361090	Film 100pF ±5% Film 100pF ±5% Film 220pF ±5% Film 220pF ±5% Film 360pF ±5%
CL08 CL09 CL10	1 1 1	1 1 1	1 1 1	DF55361090 DD15390300 DD15390300 DF55101090	Film 360pF ±5% Ceramic 39pF ±5% Ceramic 39pF ±5% Film 100pF ±5%
CL12 CL13 CL14 CL15 CL16 CL17 CL18	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	DF55101090 DF55221090 DF55221090 DF55361090 DF55361090 DD15130010 DD15100010	Film 100pF ±5% Film 220pF ±5% Film 220pF ±5% Film 360pF ±5% Film 360pF ±5% Ceramic 10pF ±5% Ceramic 10pF ±5%
RL01	1	1	1	GD05112140	PL00-RESISTORS (All Resistors are ±5% and ¼W) 1.1KΩ
RL01 RL02 RL03 RL04 RL05 RL06 RL07 RL08 RL09 RL10	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	GD05112140 GD05123140 GD05123140 GD05393140 GD05393140 GD05104140 GD05104140 GD05112140 GD05112140	1.1KΩ 12KΩ 12KΩ 39KΩ 39KΩ 100KΩ 100KΩ 1.1KΩ
RL11 RL12 RL13 RL14 RL15 RL16	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	GD05123140 GD05123140 GD05393140 GD05393140 GD05104140 GD05104140	12ΚΩ 12ΚΩ 39ΚΩ 39ΚΩ 100ΚΩ 100ΚΩ
SL01 SL02	1 1	1 1	11	SR04050190 SR04050190	PL00-SWITCH Rotary Switch Rotary Switch

• (U): for U.S.A. • (C): for Canada

·		• (N): for Europe
QTY	PART NO.	DESCRIPTION

REF. DESIG.	_	YT		PART NO.	DESCRIPT	ON		REF.	_	2ή		PART NO.	DESCRI
DESIG.	U	С	N					DESIG.	ļu	C	N		
PM01	1 1	1	1	YK29780210 ZZ29780210	PM01-MC AMP. CIRCUIT BOARD P.W. Board, MC Ar P.W. Board Assemb	•		RM21 RM22 RM23 RM24 RM25	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	GG05220140 GG05220140 GD05471140 GD05471140 GD05103140	22Ω 22Ω 470Ω 470Ω 10KΩ
CM01 CM02 CM03 CM04 CM05 CM06 CM07 CM08 CM09	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	11111111	DD15101300 DD15101300 DF15152350 DF15152350 EA47700690 EA47700690 EA47503590 EA47503590 DD15560300 DD15560300	PM01-CAPACITOI Ceramic 100pF Ceramic 100pF Film 0.0015μF Film 0.0015μF Elect 470μF Elect 470μF Elect 4.7μF Elect 4.7μF Ceramic 56pF	±5% ±5% ±5% ±5%	6V 6V 35V 35V	RM26 RM27 RM28 RM29 RM30 RM31 RM32 RM33 RM34	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	GD05103140 GD05470140 GD05470140 GD05470140 GD05470140 GD05223140 GD05223140 GD05273140 GD05273140	10ΚΩ 47Ω 47Ω 47Ω 47Ω 22ΚΩ 22ΚΩ 27ΚΩ 27ΚΩ
CM11 CM12 CM13 CM14 CM15 CM16 CM17 CM18 CM19 CM20 CM21 CM22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA47700690 EA47700690 DF15102300 DF15102300 EQ10603510 DF17474510 DF17474510 EA47601690 EA47601690 EA22701690	Ceramic 56pF	±5% ±5% ±5% ±20%	6.3 V 6.3 V 35 V 35 V 16 V 16 V 16 V 16 V	QM01 QM02 QM03 QM04 QM05 QM06 QM07 QM08 QM09 QM10 QM11 QM11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111111111111	1 1 1 1 1 1 1 1 1 1 1 1	HF201472A0 HF201472A0 HT109701A0 HT109701A0 HT406661C0 HT406661C0 HT206461C0 HV00006120 HV00006120 HV403132P0 HT205072P0	PM01-SEMICON F.E.T. F.E.T. Transistor Transistor Transistor Transistor Transistor Varistor Varistor Transistor Transistor Varistor Transistor
					PM01-RESISTORS			SM01	1	1	1	SP04010300	PM01-SWITCH Push Switch
RM01 RM02 RM03 RM04 RM05 RM06 RM07 RM09 RM10 RM11 RM12 RM13 RM14 RM15 RM16 RM17	111111111111111111111111111111111111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GD05033140 GD05033140 GD05470140 GD05470140 GM21422110 GM21422110 GD05163140 GD05163140 GD05220140 GD05220140 GD05152140 GD05152140 GD05152140 GD05152140 GD05153140 GD05153140 GD05153140	(All Resistors are \pm 3.3 Ω 3.3 Ω 47 Ω 47 Ω 2.21 $K\Omega$ 2.21 $K\Omega$ 16 $K\Omega$ 12 Ω 22 Ω 22 Ω 1.5 $K\Omega$ 120 Ω 15 $K\Omega$ 16 $K\Omega$ 16 $K\Omega$ 17 $K\Omega$ 17 $K\Omega$ 17 $K\Omega$ 17 $K\Omega$ 17 $K\Omega$ 18 $K\Omega$	±2% ±2%	24W)	PN00 CN01 CN02 CN04 CN05 CN06 CN07	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	YG29560022 ZZ29902020 EA33505090 EA10706390 EA10706390 EA47601690 EA47601690	PN00-PEAK INI CIRCUIT BOAF P.W. Board, Peal P.W. Board Asse PN00-CAPACIT Elect 3.3μ Elect 100μ Elect 220μ Elect 47μ Elect 47μ PN00-RESISTO (All Resistors are 10ΚΩ 10ΚΩ
RM18 RM19 RM20	1 1 1		1 1 1	GD05152140 GG05220140 GG05220140	1.5KΩ 22Ω 22Ω			RN17 RN18 RN19 RN20 RN21 RN22 RN23 RN24 RN25 RN26 RN27 RN28 RN29	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RT05393140 RT05393140 RT05183140 RT05183140 RT05302140 RT05302140 RT05753140 RT05753140 RT05753140 RT05753140 RT05473140 RT05473140 RT05473140	39ΚΩ 39ΚΩ 18ΚΩ 18ΚΩ 3ΚΩ 75ΚΩ 75ΚΩ 75ΚΩ 47ΚΩ 47ΚΩ

DESIG.	U	С	N	PART NO.	DESCRIPTION
	1	-			
DM21	,			0005000140	220
RM21 RM22	1	1	1	GG05220140 GG05220140	22Ω 22Ω
RM23	1	1	1	GD05471140	470Ω
RM24	١i	li	i	GD05471140	470Ω
RM25	1	1	i	GD05103140	10ΚΩ
RM26	1	1	1	GD05103140	10ΚΩ
RM27	1	1	1	GD05470140	47Ω
RM28	1	1	1	GD05470140	47Ω
RM29	1	1	1	GD05470140	47Ω
RM30	1	1	1	GD05470140	47Ω
RM31	1	1	1	GD05223140	22ΚΩ
RM32	1	1	1	GD05223140	22ΚΩ
RM33	1	1	1	GD05273140	27ΚΩ
RM34	1	1	1	GD05273140	27ΚΩ
					PM01-SEMICONDUCTORS
QM01	1	1	1	HF201472A0	F.E.T. 2SK147 (GR-BL)
QM02	1	1	1	HF201472A0	F.E.T. 2SK147 (GR-BL)
QM03	i	1	1	HT109701A0	Transistor 2SA970 (GR)
QM04	1	1	i	HT109701A0	Transistor 2SA970 (GR)
QM05	1	1	1	HT406661C0	Transistor 2SD666 (C)
QM06	1	1	1	HT406661C0	Transistor 2SD666 (C)
QM07	1	1	1	HT206461C0	Transistor 2SB646 (C)
QM08	1	1	1	HT206461C0	Transistor 2SB646 (C)
QM09	1	1	1	HV00006120	Varistor MV203 (Y)
QM10	1	1	1	HV00006120	Varistor MV203 (Y)
QM11	1	1	1	HT403132P0	Transistor 2SD313 (D or E)
QM12	1	1	1	HT205072P0	Transistor 2SB507 (D or E)
					·
					PM01-SWITCH
SM01	1	1	1	SP04010300	Push Switch
					·
					DAIGO DE AK IAID
					PN00-PEAK IND.
PN00	1	1	1	YG29560022	CIRCUIT BOARD
FINOU	1	1	1	ZZ29902020	P.W. Board, Peak Ind. P.W. Board Assembly
	'	'	'	2223902020	r.w. Board Assembly
					PN00-CAPACITORS
CN01	1	1	1	EA33505090	Elect 3.3µF 50V
CN02	1	1	1	EA33505090	Elect 3.3µF 50V
CN04	1	1	1	EA10706390	Elect 100µF 63V
CN05	1	1	1	EA22701690	Elect 220µF 16V
CN06	1	1	1	EA47601690	Elect 47µF 16V
CN07	1	1	1	EA47601690	Elect 47μF 16V
					PNOS PESISTO TO
			.		PN00-RESISTORS
RN15	1	1	1	RT05103140	(All Resistors are ±5% and ¼W) 10KΩ
	1	1	1	RT05103140	
RN16 RN17	1	1	1	RT05103140	10KΩ 39KΩ
RN17	1	1	1	RT05393140	39KΩ
RN19	1	1	1	RT05393140	18ΚΩ
RN20	1	1	1	RT05183140	18ΚΩ
RN20	1	1	1	RT05302140	3ΚΩ
RN22	1	1	1	RT05302140	3ΚΩ
RN23	1	1	1	RT05302140	75ΚΩ
RN24	1	1	1	RT05753140	75ΚΩ
111467	'		.		7 013.42
RN25	1	1	1	RT05753140	75ΚΩ
RN26	1	1	1	RT05753140	75ΚΩ
RN27	1	1	1	RT05473140	47ΚΩ
RN28	1	1	1	RT05473140	47ΚΩ
RN29	1	1	1	RT05473140	47ΚΩ
			- 1		
			J		
	_	_	_		

REF. QT		QTY		DA DT NO	DESCRIPTION			
DESIG.	U	С	N	PART NO.	DESCI	RIPTION		
DNOO		4	1	RT05473140	47ΚΩ			
RN30 RN31	1	1	1	RT05473140	18ΚΩ			
RN32	1	1	1	RT05183140	18KΩ	U.		
RN33	1	1	1	RT05333140	33KΩ			
RN34	1	1	1	RT05333140	33KΩ	* L		
RN35	1	1	1	RT05333140	22KΩ			
RN36	1	1	1	RT05223140	22ΚΩ			
RN37	1	1	1	RT05104140	100ΚΩ			
RN38	1	i	i	RT05104140	100ΚΩ			
RN39	1	1	i	RT05823140	82KΩ			
			ļ ·			. V		
RN40	1	1	1	RT05823140	82KΩ			
RN41	1	1	1	RT05512140	5.1ΚΩ			
RN42	1	1	1	RT05512140	5.1KΩ	Α		
RN43	1	1	1	RT05273140	27ΚΩ			
RN44	1	1	1	RT05273140	27ΚΩ			
		١.						
RN45	1	1	1	RT05363140	36KΩ			
RN46	1	1	1	GA05391010	390Ω	1W		
RN47	1	1	1	RT05274140	270ΚΩ			
RN48	1	1	1	GD05393140	39KΩ			
RN49	1	1	1	RT05273140	27ΚΩ			
RN50	1	1	1	RT05682140	6.8KΩ			
RN51	1	1	1	RT05224140	220ΚΩ			
RN52	1	1	1	RT05562140	5.6KΩ			
RN53	1	1	1	RT05562140	5.6KΩ			
RN54	1	1	1	GA05332010	3.3KΩ	1W		
RN55	1	1	1	RT05511140	510Ω			
RN56	1	1	1	RT05511140	510Ω			
		١.			DNIGO CENTO	ONDUCTORS		
ONOS		١.		LITOODAFOAO		ONDUCTORS		
QN03	1	1	1	HT309452A0	Transistor	2SC945 (Q or R)		
QN04	1	1	1	HT309452A0	Transistor	2SC945 (Q or R)		
QN05	1	1	1	HT309452A0	Transistor	2SC945 (Q or R) 2SC945 (Q or R)		
QN06	1	1	1	HT309452A0	Transistor Transistor	2SC945 (Q or R)		
QN09	1	1	1	HT309452A0	Transistor	2SC1318 (R or S)		
QN10 QN11	1	1	1	HT313182B0 HT313182B0	Transistor	2SC1318 (R or S)		
QN13	1	'n	1	HD30023090	Zener	WZ-071		
QN14	li	li	i	HD20011030	Diode	DS131B		
QN15	1	Ιi	Ι'n	HT108722D0	Transistor	2SA872A (D or E)		
1 GN15		Ι'	١.	11110072200	11411313101	20/10/2/11/2012/		
QN16	1	1	1	HT108722D0	Transistor	2SA872A (D or E)		
QN17	1	1	i	HT108722D0	Transistor	2SA872A (D or E)		
QN18	1	1	1	HT108722D0	Transistor	2SA872A (D or E)		
QN19	i	1	i	HT317752E0	Transistor	2SC1775A (E or F)		
QN20	1	1	1	HT317752E0	Transistor	2SC1775A (E or F)		
QN23	1	1	1	HD20001210	Diode	1S2473		
QN24	1	1	1	HD20001210	Diode	1S2473		
QN25	1	i	1	HD20001210	Diode	1S2473		
QN26	1	i	1	HD20001210	Diode	152473		
QN27	1	1	1	HD20011010	Diode	W06C		
QN28	1	1	1	HD20011010	Diode	W06C		
QN29	1	1	1	HD20005010	Diode	W06B		
QN30	1	1	1	HD20005010	Diode	W06B		
	1	Ĺ	Ė					
		1			PN00-MISCE	LLANEOUS		
JN01	1	1	1	YP06001070	Plug, (9P)			
JN02	1	1	1	YP06001070	Plug, (9P)			
JN03	1	1	1	YP06001040	Plug, (3P)			
JN04	1	1	1	YP06001060	Plug, (7P)			
LN01	1	1	1	LY20240110	Relay			
1								
1				1				

		·/T			• (N): for Europe
REF. Q'TY DESIG. U C N		PART NO.	DESCRIPTION		
PV00	1 1	1 1	1	YF29780020 ZZ29901020 ZZ29908020	PV00-RCA PIN CIRCUIT BOARD P.W. Board, RCA Pin P.W. Board Assembly P.W. Board Assembly
CV01	1	1	1	DK18473320	Ceramic 0.047µF +100% -0
RV01 RV02 RV03 RV04 RV05 RV06 RV07 RV08			1 1 1 1 1 1 1	GD05394140 GD05394140 GD05104140 GD05104140 GD05394140 GD05394140 GD05104140 GD05104140	PV00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 390ΚΩ 390ΚΩ 100ΚΩ 100ΚΩ 390ΚΩ 390ΚΩ 100ΚΩ 100ΚΩ 100ΚΩ
JV01 JV02 JV03 JV04 JV04 JV05 JV06 JV06	1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	YT02040270 YT02040150 BY01050060 YT02040150 BY01050060 YT02040150 YT02020150 YT02040150 YT02040210	PV00-JACK Terminal, Phono 1, 2 Terminal, Tuner/Aux Jack, Tape Monitor 1 Jack, Tape Monitor 1 Jack, Tape Monitor 2 Terminal, Terminal, Scope Out Terminal, Pre Out Terminal, Pre Out
PW00	1 1	1 1	1 1	YD29700032 ZZ29780010	PW00-SPEAKER SWITCH CIRCUIT BOARD P.W. Board, Speaker Switch P.W. Board Assembly
RW01 RW02 RW03 RW04	1 1 1 1	1 1 1 1	1 1 1 1	GA05331020 GA05331020 GA05151010 GA05151010	PW00-RESISTORS 330Ω 2W 330Ω 2W 150Ω 1W 150Ω 1W
JW01	1	1	1	YJ01000860	PW00-MISCELLANEOUS Jack, Headphone
SW01	1	1	1	SP02020240	Push Switch

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

9. TECHNICAL SPECIFICATIONS

FOR U.S.A. MODEL ONLY

AMP	LI	FI	E	RS	EC1	TIOI	V

RATED POWER OUTPUT, MINIMUM CONTINUOLS
AVERAGE POWER PER CHANNELS, BOTH CHANNELS DRIVEN
POWER BAND
TOTAL HARMONIC DISTORTION
LOAD IMPEDANCE 8 OHMS
RATED POWER OUTPUT, MINIMUM CONTINUOUS
AVERAGE POWER PER CHANNELS, BOTH CHANNELS DRIVEN
POWER BAND 20 Hz to 20 kHz
TOTAL HARMONIC DISTORTION
LOAD IMPEDANCE 4 OHMS
I.M. Distortion (IHF method, 60 Hz and 7 kHz mixed 4 : 1 at rated power output)
at 8 ohm load impedance
at 4 ohm load impedance
Damping Factor (at 20 Hz)
Sensitivity (at MAIN IN)
Impedance (at MAIN IN)
Frequency Response for Power Amp Only (at 1 watt output ±1 dB)
S/N Ratio (MAIN IN, "A" Weighted)
PREAMPLIFIER SECTION
Phono Section
Input Overload at 1 kHz (MM)
THD (150 mV Input at 1 kHz)
Equivalent Input Noise ("A" Weighted)
Phono (MM)
Phono (MC)
Dynamic Range ("A" Weighted) Phono (MM) 120 dB
Input Sensitivity (ref. to rated output) Phono (MM)
Phono (MC)
Input Impedance
Phono (MM)
Phono (MC)
Input Capacitance (MM)
Frequency Response, RIAA 20 Hz to 20 kHz
Signal to Noise Raito (ref. to rated output and 7.75 mV input "PHONO MM"
or 0.775 mV input "PHONO MC" at 1 kHz, "A" weighted)
Phono (MM)
Phono (MC)
High Level Inputs (Aux Tape, and Tuner)
Input Sensitivity (ref. rated output)
Input Impedance
Frequency Response
20 Hz ~ 20 kHz
5 Hz ~ 100 kHz
Signal-to-Noise Ratio (ref. to Rated Output and 7.75 mV input "A" weighted)
Output Levels
Tape Out (ref. to 7.75 mV at Phono (MM) Input)
Pre Out (ref. to 150 mV at Aux Inputs)
(ref. to 500 mV at Aux Inputs)
Output Impedance
Tape Out (Phono Mode)
Pre Out

GENERAL

Power Requirements
Power Consumption at rated output, both channels operating (8 ohm road)
Idling power (volume control at zero) 90 W
Dimensions
Panel Width
Panel Height
Depth
Weight
Unit alone
Packed for shipment

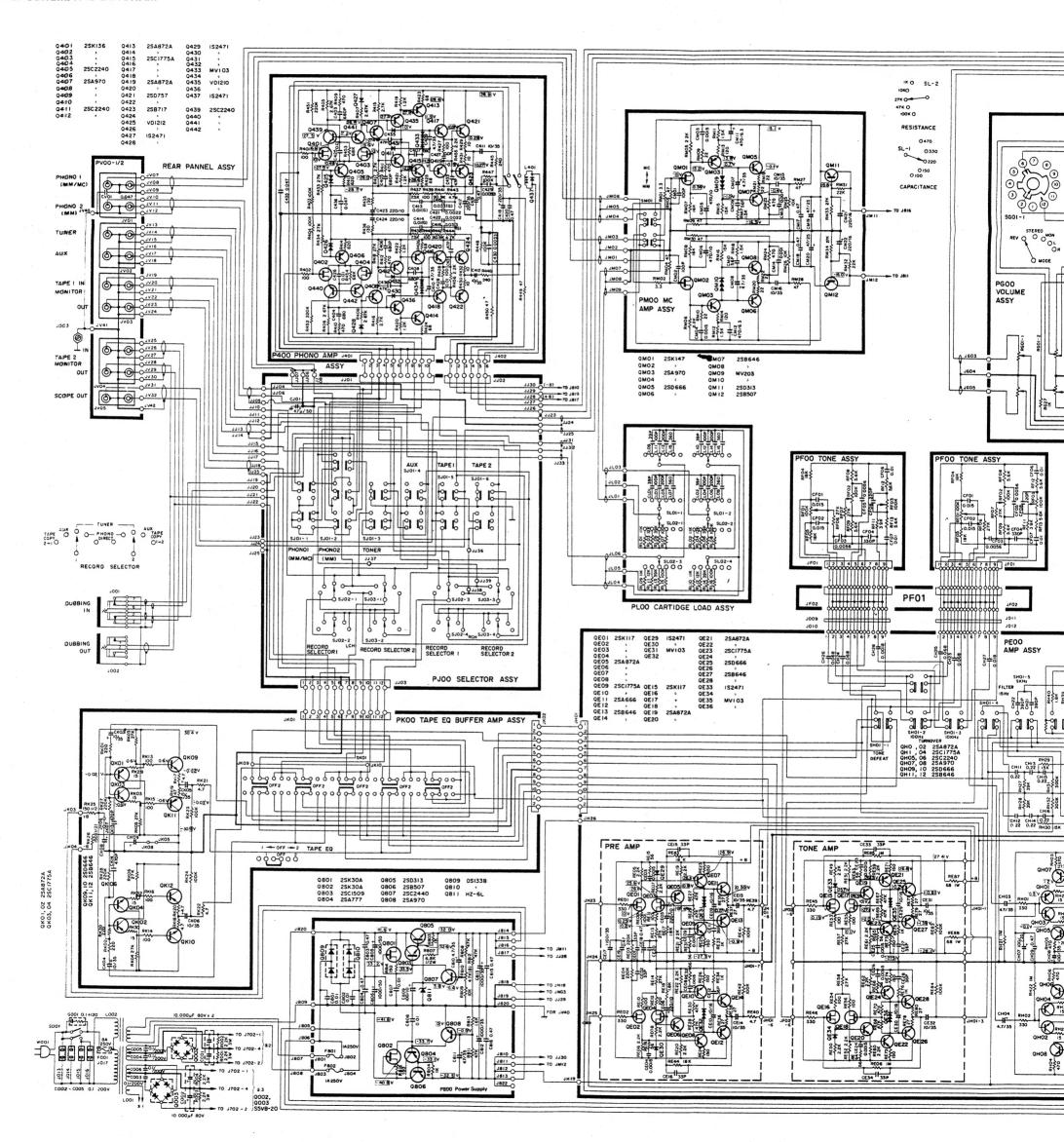
FOR EUROPEAN MODEL ONLY

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL	80 W
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT	
I.M. DISTORTION AT RATED POWER OUTPUT	33/0
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	0.404
POWER BANDWIDTH	
	0 W
POWER OUTPUT, FTC AMERICAN STANDARDS, 8 OHM, PER CHANNEL	o w
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT	01%
I.M. DISTORTION AT RATED POWER OUTPUT	
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	02%
POWER BANDWIDTH DC-30	kHz
DAMPING FACTOR 8 OHM	
Frequency Response	00
Phono (RIAA) ±0.2) dB
Aux (±1 dB)	
Main In (±1 dB)	
Signal-to-Noise Ratio (IHF-A Network)	KITZ
Phono (MC)	2 40
(MM)	
	Jab
Input Terminals	
Phono: Input Impedance (MC)	
(MM)	
(MM)	
(MM)	hms
(MM)	hms
(MM)	hms
Input Capacitance (MM)) pF
(MM)) pF
(MM)) pF
(MM)) pF
(MM)) pF
Input Sensitivity (MC)	μV
(MM)	mV

Overload Margin	dB
Aux: Input Impedance	ıms
Input Sensitivity	
Phono Equivalent Input Noise (IHF-A Network)	
(MC)	uV
(MM)	
Phono Dynamic Range (Ratio of input overload to equivalent input noise)	
Channel Balance (0 to -40 dB/40 Hz-16 kHz)	
Phono	dВ
Aux	
Main In	
Interchannel Crosstell	
Phono 1 kHz	٩D
Aux 1 kHz	
Tape 1 kHz	
Main In 1 kHz	uв
1 kHz	-ID
	aB
Output Voltage, 1 kHz	.,
Tape Out: Phono (MM) 7.75 mV Input	ηV
Pre Out: Aux 775 mV Input 7.75	V
Output Impedance, 1 kHz	
Tape Out	
Pre Out	ıms
GENERAL	
GENERAL	
Day 10 To	
Power Requirements	
(E and N versions are featuring an external voltage selector for use on 110/120/240	
Other versions can be converted by a qualified technician to operate on 110/120/240	
Power Consumption at Rated Output, Both Channels Operating	ō W
Idling Power 90) W
Semiconductor Complement	
Transistors	
Diodes	
Field Effect Transistors	18
Dimensions	
Panel Width	ım)
Panel Height	ım)
Depth	ım)
Weight	
Unit alone	ka)
Packed for shipment	

10. SCHEMATIC DIAGRAM



MODEL 1300DC

